



IES INDOOR REPORT

PHOTOMETRIC FILENAME : FBY36L840-UNV-LFA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO40599.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 3/13/19
[MANUFAC] DAY-BRITE/CFI by SIGNIFY
[LUMCAT] FBY36L840-UNV-LFA
[LUMINAIRE] FBY CORE HIGHBAY
[MORE] 8-FORTIMO EDGE 96UP 4000K 2-190W DRIVERS @1.29A EACH FROSTED LENS
[LAMP] LED LUMINAIRE OUTPUT = 35176 LUMENS
[TEST DATE] 3/13/19
[LM79] Absolute Photometry tested in accordance with IES procedure LM79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	35176
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	269.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.77 ft
Luminous Width (90-270)	0.51 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	60721	59485	59002
55	53014	52947	63997
65	44569	54458	51058
75	36588	41949	42228
85	22595	37843	48804

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	13333.1	13333.1	13333.1	13333.1	13333.1	13333.1	13333.1	13333.1	13333.1	13333.1
2.5	13148.8	13219.1	13349.6	13403.1	13389.2	13403.1	13349.6	13219.1	13148.8	13219.1
5.0	13092.1	13159.0	13284.0	13328.6	13322.0	13328.6	13284.0	13159.0	13092.1	13159.0
7.5	12996.2	13059.6	13177.2	13216.5	13208.9	13216.5	13177.2	13059.6	12996.2	13059.6
10.0	12864.1	12921.6	13028.2	13057.9	13041.5	13057.9	13028.2	12921.6	12864.1	12921.6
12.5	12694.5	12745.6	12831.9	12845.3	12833.2	12845.3	12831.9	12745.6	12694.5	12745.6
15.0	12486.0	12531.1	12596.9	12598.8	12589.1	12598.8	12596.9	12531.1	12486.0	12531.1
17.5	12243.3	12278.0	12317.2	12320.6	12302.1	12320.6	12317.2	12278.0	12243.3	12278.0
20.0	11966.0	11987.8	12008.7	12000.0	11973.0	12000.0	12008.7	11987.8	11966.0	11987.8
22.5	11655.4	11664.2	11669.7	11639.5	11617.0	11639.5	11669.7	11664.2	11655.4	11664.2
25.0	11310.8	11309.0	11310.5	11252.5	11200.9	11252.5	11310.5	11309.0	11310.8	11309.0
27.5	10939.0	10921.0	10902.2	10824.8	10765.8	10824.8	10902.2	10921.0	10939.0	10921.0
30.0	10527.3	10506.3	10480.2	10373.9	10311.9	10373.9	10480.2	10506.3	10527.3	10506.3
32.5	10089.4	10073.5	10030.7	9894.3	9826.7	9894.3	10030.7	10073.5	10089.4	10073.5
35.0	9635.4	9623.2	9557.4	9403.8	9340.6	9403.8	9557.4	9623.2	9635.4	9623.2
37.5	9171.9	9161.6	9064.1	8902.6	8835.4	8902.6	9064.1	9161.6	9171.9	9161.6
40.0	8695.4	8692.5	8558.4	8390.8	8330.8	8390.8	8558.4	8692.5	8695.4	8692.5
42.5	8193.7	8196.5	8043.0	7878.9	7844.0	7878.9	8043.0	8196.5	8193.7	8196.5
45.0	7676.6	7688.4	7520.4	7386.0	7459.3	7386.0	7520.4	7688.4	7676.6	7688.4
47.5	7153.9	7183.7	6997.8	7004.1	7229.2	7004.1	6997.8	7183.7	7153.9	7183.7
50.0	6639.1	6664.5	6488.6	6815.3	7148.0	6815.3	6488.6	6664.5	6639.1	6664.5
52.5	6128.9	6143.1	5995.6	6730.0	6990.6	6730.0	5995.6	6143.1	6128.9	6143.1
55.0	5436.6	5244.1	5429.8	6524.1	6562.9	6524.1	5429.8	5244.1	5436.6	5244.1
57.5	4765.3	4770.8	5055.4	6064.7	5702.0	6064.7	5055.4	4770.8	4765.3	4770.8
60.0	4289.5	4298.7	4918.4	5187.9	4983.0	5187.9	4918.4	4298.7	4289.5	4298.7
62.5	3821.9	3839.2	4618.6	4247.2	4209.6	4247.2	4618.6	3839.2	3821.9	3839.2
65.0	3367.7	3394.4	4114.9	3752.0	3858.0	3752.0	4114.9	3394.4	3367.7	3394.4
67.5	2931.8	2968.8	3401.6	3353.3	3316.8	3353.3	3401.6	2968.8	2931.8	2968.8
70.0	2506.9	2669.1	2832.2	2815.5	2933.3	2815.5	2832.2	2669.1	2506.9	2669.1
72.5	2093.1	2447.8	2429.4	2406.0	2325.8	2406.0	2429.4	2447.8	2093.1	2447.8
75.0	1693.1	2082.4	1941.2	1917.3	1954.1	1917.3	1941.2	2082.4	1693.1	2082.4
77.5	1310.3	1553.0	1540.5	1657.4	1697.7	1657.4	1540.5	1553.0	1310.3	1553.0
80.0	953.1	1110.6	1225.2	1313.0	1319.8	1313.0	1225.2	1110.6	953.1	1110.6
82.5	629.6	757.3	873.7	945.1	982.3	945.1	873.7	757.3	629.6	757.3
85.0	352.1	470.6	589.7	704.4	760.5	704.4	589.7	470.6	352.1	470.6
87.5	134.4	232.3	381.8	499.5	543.0	499.5	381.8	232.3	134.4	232.3
90.0	27.8	118.4	254.7	367.1	417.0	367.1	254.7	118.4	27.8	118.4
92.5	45.1	120.4	229.2	319.5	354.5	319.5	229.2	120.4	45.1	120.4
95.0	67.0	126.5	228.7	302.0	324.9	302.0	228.7	126.5	67.0	126.5
97.5	100.5	132.0	229.7	302.1	320.8	302.1	229.7	132.0	100.5	132.0
100.0	134.5	138.2	230.1	299.7	318.5	299.7	230.1	138.2	134.5	138.2
102.5	168.6	145.8	229.1	296.4	314.8	296.4	229.1	145.8	168.6	145.8
105.0	200.6	155.2	228.2	292.0	309.0	292.0	228.2	155.2	200.6	155.2
107.5	229.5	167.5	228.5	287.4	303.5	287.4	228.5	167.5	229.5	167.5
110.0	255.3	182.1	229.2	282.6	299.0	282.6	229.2	182.1	255.3	182.1
112.5	279.0	198.0	231.0	279.0	295.0	279.0	231.0	198.0	279.0	198.0
115.0	299.8	214.5	233.7	276.8	291.1	276.8	233.7	214.5	299.8	214.5
117.5	316.6	231.5	237.3	275.5	287.2	275.5	237.3	231.5	316.6	231.5
120.0	332.3	246.6	243.7	275.0	286.1	275.0	243.7	246.6	332.3	246.6
122.5	346.1	260.6	252.7	274.6	285.3	274.6	252.7	260.6	346.1	260.6
125.0	357.4	276.7	263.9	276.7	284.0	276.7	263.9	276.7	357.4	276.7
127.5	363.5	292.0	276.6	281.6	286.1	281.6	276.6	292.0	363.5	292.0
130.0	369.0	303.8	289.2	289.0	290.8	289.0	303.8	369.0	369.0	303.8
132.5	375.5	315.2	302.6	298.9	298.5	298.9	302.6	315.2	375.5	315.2

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CANDELA TABULATION - (Cont.)

135.0	379.9	326.9	316.3	310.1	308.2	310.1	316.3	326.9	379.9	326.9
137.5	382.6	339.0	327.1	321.3	318.7	321.3	327.1	339.0	382.6	339.0
140.0	383.3	357.4	334.6	332.7	329.1	332.7	334.6	357.4	383.3	357.4
142.5	382.6	378.6	343.5	343.5	339.6	343.5	343.5	378.6	382.6	378.6
145.0	380.6	399.7	352.2	351.0	348.0	351.0	352.2	399.7	380.6	399.7
147.5	375.0	414.1	355.3	355.8	353.2	355.8	355.3	414.1	375.0	414.1
150.0	370.4	417.9	356.3	360.6	358.5	360.6	356.3	417.9	370.4	417.9
152.5	364.8	412.1	356.4	362.8	361.8	362.8	356.4	412.1	364.8	412.1
155.0	358.2	399.4	361.9	358.9	359.9	358.9	361.9	399.4	358.2	399.4
157.5	351.3	384.6	380.4	354.4	353.7	354.4	380.4	384.6	351.3	384.6
160.0	343.8	370.5	398.7	359.1	353.4	359.1	398.7	370.5	343.8	370.5
162.5	336.3	359.3	403.4	379.1	366.8	379.1	403.4	359.3	336.3	359.3
165.0	328.8	349.8	391.5	394.7	381.1	394.7	391.5	349.8	328.8	349.8
167.5	323.0	340.9	370.5	392.0	378.5	392.0	370.5	340.9	323.0	340.9
170.0	317.8	332.7	352.9	376.9	366.2	376.9	352.9	332.7	317.8	332.7
172.5	313.8	325.2	339.2	357.9	349.6	357.9	339.2	325.2	313.8	325.2
175.0	311.3	319.0	328.3	340.2	329.4	340.2	328.3	319.0	311.3	319.0
177.5	310.0	314.1	320.1	327.4	320.2	327.4	320.1	314.1	310.0	314.1
180.0	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2	316.2

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	13333.1	13333.1	13333.1	13333.1	13333.1	13333.1	13333.1
2.5	13349.6	13403.1	13389.2	13403.1	13349.6	13219.1	13148.8
5.0	13284.0	13328.6	13322.0	13328.6	13284.0	13159.0	13092.1
7.5	13177.2	13216.5	13208.9	13216.5	13177.2	13059.6	12996.2
10.0	13028.2	13057.9	13041.5	13057.9	13028.2	12921.6	12864.1
12.5	12831.9	12845.3	12833.2	12845.3	12831.9	12745.6	12694.5
15.0	12596.9	12598.8	12589.1	12598.8	12596.9	12531.1	12486.0
17.5	12317.2	12320.6	12302.1	12320.6	12317.2	12278.0	12243.3
20.0	12008.7	12000.0	11973.0	12000.0	12008.7	11987.8	11966.0
22.5	11669.7	11639.5	11617.0	11639.5	11669.7	11664.2	11655.4
25.0	11310.5	11252.5	11200.9	11252.5	11310.5	11309.0	11310.8
27.5	10902.2	10824.8	10765.8	10824.8	10902.2	10921.0	10939.0
30.0	10480.2	10373.9	10311.9	10373.9	10480.2	10506.3	10527.3
32.5	10030.7	9894.3	9826.7	9894.3	10030.7	10073.5	10089.4
35.0	9557.4	9403.8	9340.6	9403.8	9557.4	9623.2	9635.4
37.5	9064.1	8902.6	8835.4	8902.6	9064.1	9161.6	9171.9
40.0	8558.4	8390.8	8330.8	8390.8	8558.4	8692.5	8695.4
42.5	8043.0	7878.9	7844.0	7878.9	8043.0	8196.5	8193.7
45.0	7520.4	7386.0	7459.3	7386.0	7520.4	7688.4	7676.6
47.5	6997.8	7004.1	7229.2	7004.1	6997.8	7183.7	7153.9
50.0	6488.6	6815.3	7148.0	6815.3	6488.6	6664.5	6639.1
52.5	5995.6	6730.0	6990.6	6730.0	5995.6	6143.1	6128.9
55.0	5429.8	6524.1	6562.9	6524.1	5429.8	5244.1	5436.6
57.5	5055.4	6064.7	5702.0	6064.7	5055.4	4770.8	4765.3
60.0	4918.4	5187.9	4983.0	5187.9	4918.4	4298.7	4289.5
62.5	4618.6	4247.2	4209.6	4247.2	4618.6	3839.2	3821.9
65.0	4114.9	3752.0	3858.0	3752.0	4114.9	3394.4	3367.7
67.5	3401.6	3353.3	3316.8	3353.3	3401.6	2968.8	2931.8
70.0	2832.2	2815.5	2933.3	2815.5	2832.2	2669.1	2506.9
72.5	2429.4	2406.0	2325.8	2406.0	2429.4	2447.8	2093.1
75.0	1941.2	1917.3	1954.1	1917.3	1941.2	2082.4	1693.1
77.5	1540.5	1657.4	1697.7	1657.4	1540.5	1553.0	1310.3
80.0	1225.2	1313.0	1319.8	1313.0	1225.2	1110.6	953.1

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CANDELA TABULATION - (Cont.)

82.5	873.7	945.1	982.3	945.1	873.7	757.3	629.6
85.0	589.7	704.4	760.5	704.4	589.7	470.6	352.1
87.5	381.8	499.5	543.0	499.5	381.8	232.3	134.4
90.0	254.7	367.1	417.0	367.1	254.7	118.4	27.8
92.5	229.2	319.5	354.5	319.5	229.2	120.4	45.1
95.0	228.7	302.0	324.9	302.0	228.7	126.5	67.0
97.5	229.7	302.1	320.8	302.1	229.7	132.0	100.5
100.0	230.1	299.7	318.5	299.7	230.1	138.2	134.5
102.5	229.1	296.4	314.8	296.4	229.1	145.8	168.6
105.0	228.2	292.0	309.0	292.0	228.2	155.2	200.6
107.5	228.5	287.4	303.5	287.4	228.5	167.5	229.5
110.0	229.2	282.6	299.0	282.6	229.2	182.1	255.3
112.5	231.0	279.0	295.0	279.0	231.0	198.0	279.0
115.0	233.7	276.8	291.1	276.8	233.7	214.5	299.8
117.5	237.3	275.5	287.2	275.5	237.3	231.5	316.6
120.0	243.7	275.0	286.1	275.0	243.7	246.6	332.3
122.5	252.7	274.6	285.3	274.6	252.7	260.6	346.1
125.0	263.9	276.7	284.0	276.7	263.9	276.7	357.4
127.5	276.6	281.6	286.1	281.6	276.6	292.0	363.5
130.0	289.2	289.0	290.8	289.0	289.2	303.8	369.0
132.5	302.6	298.9	298.5	298.9	302.6	315.2	375.5
135.0	316.3	310.1	308.2	310.1	316.3	326.9	379.9
137.5	327.1	321.3	318.7	321.3	327.1	339.0	382.6
140.0	334.6	332.7	329.1	332.7	334.6	357.4	383.3
142.5	343.5	343.5	339.6	343.5	343.5	378.6	382.6
145.0	352.2	351.0	348.0	351.0	352.2	399.7	380.6
147.5	355.3	355.8	353.2	355.8	355.3	414.1	375.0
150.0	356.3	360.6	358.5	360.6	356.3	417.9	370.4
152.5	356.4	362.8	361.8	362.8	356.4	412.1	364.8
155.0	361.9	358.9	359.9	358.9	361.9	399.4	358.2
157.5	380.4	354.4	353.7	354.4	380.4	384.6	351.3
160.0	398.7	359.1	353.4	359.1	398.7	370.5	343.8
162.5	403.4	379.1	366.8	379.1	403.4	359.3	336.3
165.0	391.5	394.7	381.1	394.7	391.5	349.8	328.8
167.5	370.5	392.0	378.5	392.0	370.5	340.9	323.0
170.0	352.9	376.9	366.2	376.9	352.9	332.7	317.8
172.5	339.2	357.9	349.6	357.9	339.2	325.2	313.8
175.0	328.3	340.2	329.4	340.2	328.3	319.0	311.3
177.5	320.1	327.4	320.2	327.4	320.1	314.1	310.0
180.0	316.2	316.2	316.2	316.2	316.2	316.2	316.2

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4795.84	N.A.	13.60
0-30	9985.3	N.A.	28.40
0-40	15934.86	N.A.	45.30
0-60	26961.71	N.A.	76.60
0-80	32710.95	N.A.	93.00
0-90	33393.57	N.A.	94.90
10-90	32137.33	N.A.	91.40
20-40	11139.02	N.A.	31.70
20-50	16985.23	N.A.	48.30
40-70	14704.54	N.A.	41.80
60-80	5749.23	N.A.	16.30
70-80	2071.54	N.A.	5.90
80-90	682.63	N.A.	1.90
90-110	486.67	N.A.	1.40
90-120	739.89	N.A.	2.10
90-130	995.27	N.A.	2.80
90-150	1474.09	N.A.	4.20
90-180	1782.29	N.A.	5.10
110-180	1295.62	N.A.	3.70
0-180	35175.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1256.24
10-20	3539.6
20-30	5189.46
30-40	5949.57
40-50	5846.21
50-60	5180.64
60-70	3677.69
70-80	2071.54
80-90	682.63
90-100	240.39
100-110	246.28
110-120	253.23
120-130	255.38
130-140	250.55
140-150	228.27
150-160	171.77
160-170	104.43
170-180	32.00

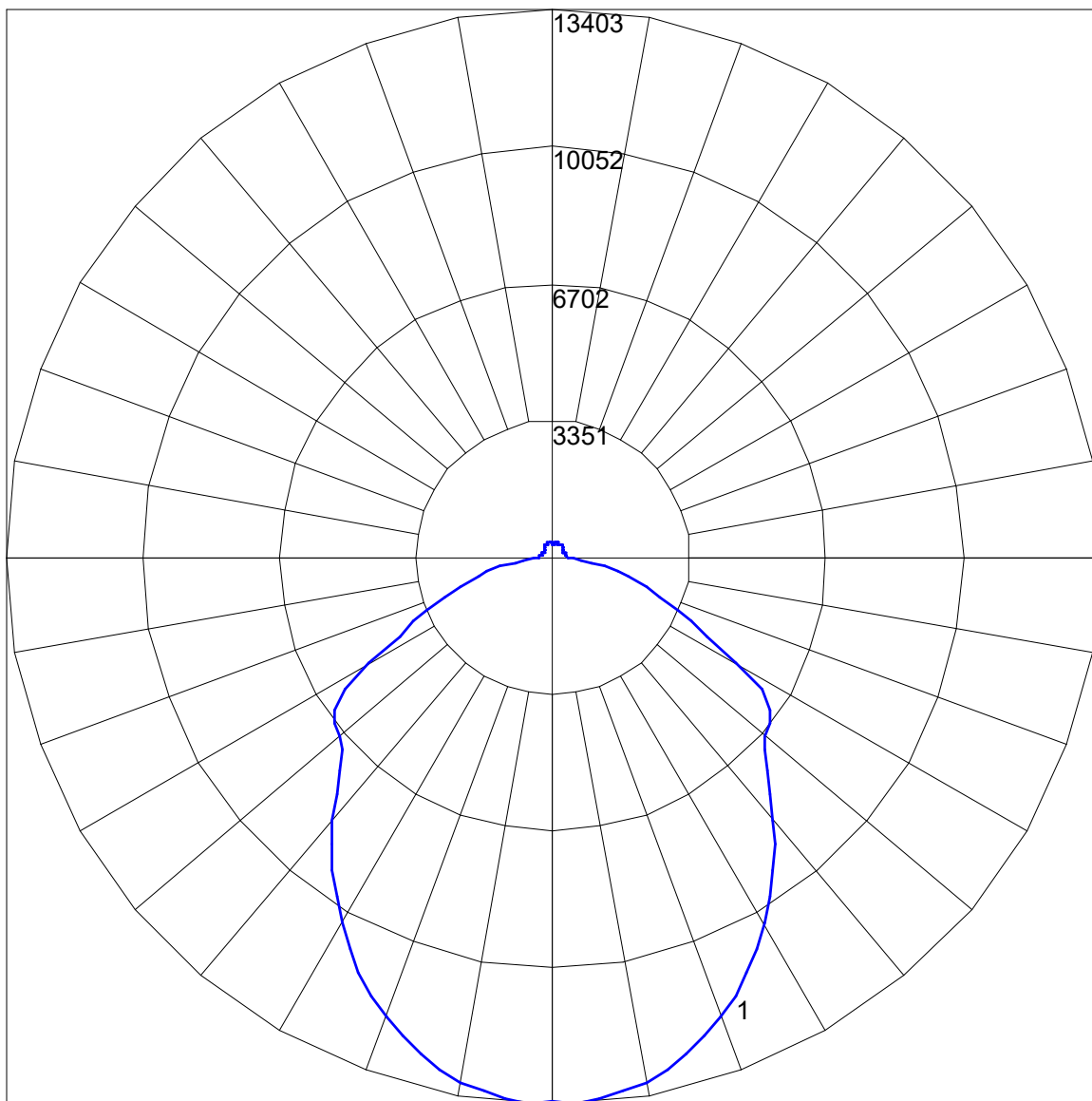
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	95
1	108	103	99	95	105	100	97	93	95	92	89	91	88	86	86	84	82	80
2	98	90	84	78	95	88	82	77	84	79	74	80	76	72	76	73	70	67
3	90	80	72	65	87	78	70	64	74	68	63	71	65	61	67	63	59	57
4	82	71	62	56	80	69	61	55	66	59	54	63	57	53	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	55	49	45	43
6	70	57	49	42	68	56	48	42	54	47	41	52	45	40	50	44	40	38
7	65	52	43	37	63	51	43	37	49	42	37	47	41	36	45	40	35	33
8	61	48	39	34	59	47	39	33	45	38	33	43	37	32	42	36	32	30
9	57	44	36	30	55	43	35	30	41	34	30	40	34	29	39	33	29	27
10	53	40	33	27	52	40	32	27	38	32	27	37	31	27	36	30	26	24

POLAR GRAPH



Maximum Candela = 13403.1 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)