

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P248184

Luminaire Tested: **LD8B175D010 ER8B175935 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175935 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13981.0 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

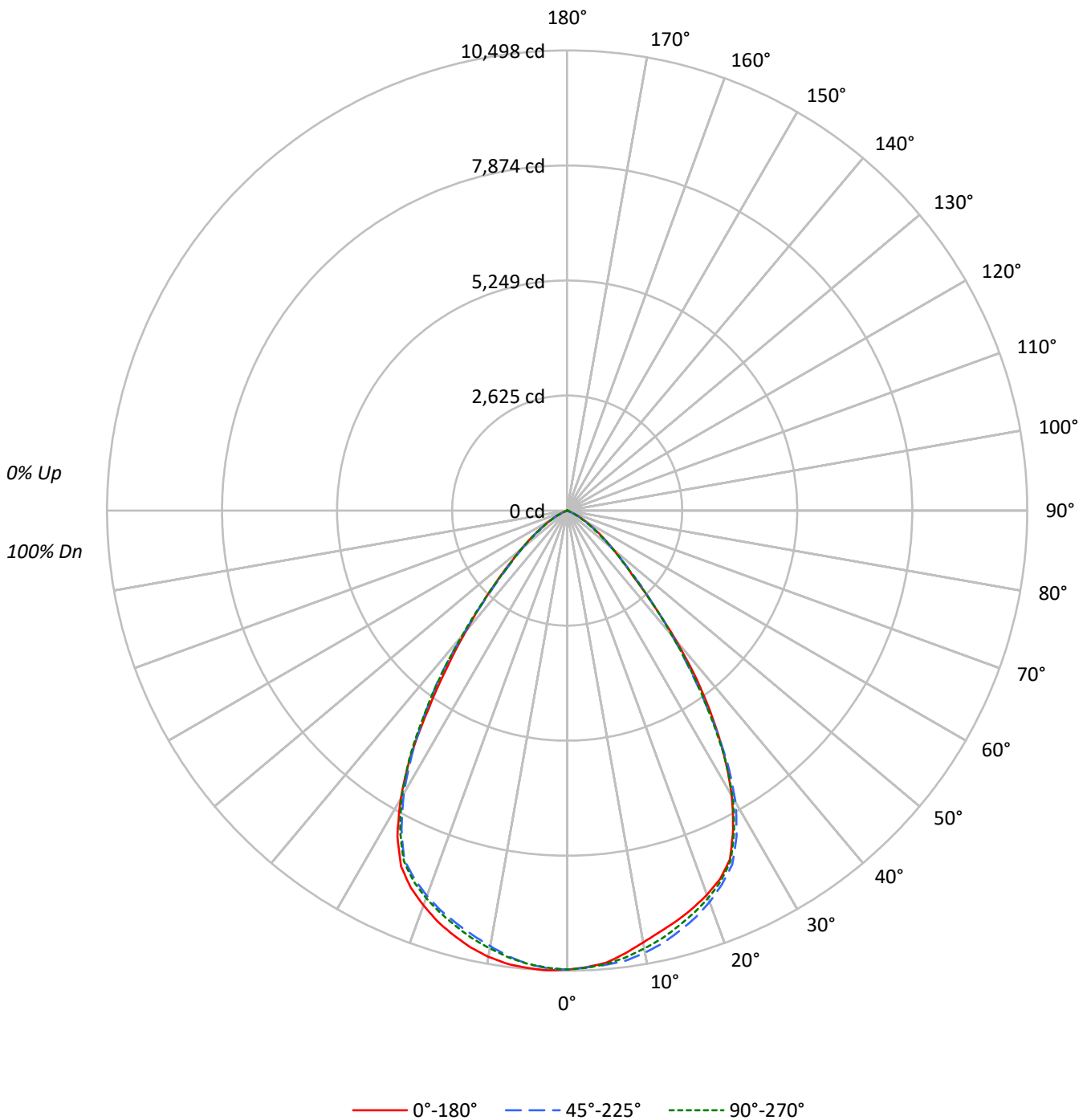
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58					58			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	322906	322906	322906
5°	320412	321307	324229
10°	313205	317635	323666
15°	309182	313332	320065
20°	306029	308717	314495
25°	298858	300072	304853
30°	267506	268877	270387
35°	218009	213623	207318
40°	154603	150300	144757
45°	94261	95857	97789
50°	65128	63924	65267
55°	44203	41101	42391
60°	28678	24996	26248
65°	15104	12010	12929
70°	3994	3381	3038
75°	691	1382	798
80°	0	0	337
85°	672	672	672



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	984.6	7.0
10°-20°	2773.7	19.8
20°-30°	3999.7	28.6
30°-40°	3512.7	25.1
40°-50°	1776.2	12.7
50°-60°	727.0	5.2
60°-70°	191.1	1.4
70°-80°	13.5	0.1
80°-90°	2.4	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7758.0	55.5
0°-40°	11270.7	80.6
0°-60°	13774.0	98.5
0°-90°	13981.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13981.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10472	10472	10472	10472	10472	
5°	10351	10398	10380	10380	10474	976
15°	9685	9925	9815	9751	10026	2733
25°	8784	8910	8819	8788	8960	3968
35°	5791	5692	5675	5651	5507	3570
45°	2162	2263	2198	2142	2242	1783
55°	822	790	764	762	788	760
65°	207	184	165	163	177	212
75°	6	4	12	4	7	15
85°	2	2	2	1	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10471.6	10471.6	10471.6	10471.6	10471.6	10471.6	10471.6	10471.6	10471.6
2.5°	10423.4	10474.5	10429.2	10456.2	10437.9	10408.0	10449.4	10430.2	10497.6
5°	10351.2	10412.8	10398.4	10432.1	10380.1	10325.2	10380.1	10384.9	10474.5
7.5°	10186.6	10292.5	10353.1	10393.6	10279.0	10189.5	10254.9	10313.7	10429.2
10°	10002.7	10130.7	10240.5	10303.1	10144.2	10013.3	10091.3	10191.4	10336.8
12.5°	9833.2	9974.8	10104.7	10165.4	9997.9	9850.5	9924.7	10048.9	10204.9
15°	9684.9	9801.4	9924.7	9987.3	9814.9	9675.3	9751.4	9866.0	10025.8
17.5°	9515.5	9625.2	9734.0	9783.2	9623.3	9502.0	9571.3	9669.5	9828.4
20°	9325.8	9420.2	9503.0	9560.7	9407.7	9292.1	9354.7	9446.2	9583.8
22.5°	9103.4	9174.7	9228.6	9280.6	9156.4	9041.8	9095.7	9167.9	9313.3
25°	8783.7	8856.0	8909.9	8968.6	8819.4	8721.2	8787.6	8818.4	8959.9
27.5°	8198.4	8289.8	8370.7	8422.7	8252.3	8167.5	8184.9	8235.9	8386.1
30°	7512.8	7557.1	7680.4	7695.8	7551.3	7404.0	7451.2	7505.1	7593.7
32.5°	6698.3	6723.3	6794.6	6802.3	6694.4	6580.8	6581.8	6557.7	6647.3
35°	5791.3	5734.5	5692.2	5721.0	5674.8	5695.0	5650.8	5540.0	5507.3
37.5°	4854.5	4817.9	4632.1	4617.7	4725.5	4791.0	4747.6	4501.2	4483.8
40°	3840.7	3799.3	3729.9	3719.3	3733.8	3771.3	3691.4	3618.3	3596.1
42.5°	2874.0	2896.1	2918.3	2938.5	2897.1	2816.2	2812.4	2798.9	2850.9
45°	2161.5	2208.7	2262.6	2289.6	2198.1	2135.5	2142.3	2172.1	2242.4
47.5°	1709.0	1718.6	1738.8	1761.9	1708.0	1628.1	1649.3	1697.4	1728.3
50°	1357.6	1367.2	1361.4	1358.5	1332.5	1284.4	1314.2	1349.9	1360.5
52.5°	1070.6	1058.1	1047.5	1040.8	1024.4	1005.2	1011.0	1040.8	1057.2
55°	822.2	812.6	789.5	779.9	764.5	759.7	762.5	785.7	788.5
57.5°	618.1	604.6	581.5	563.2	564.2	556.5	560.4	576.7	585.4
60°	465.0	456.4	415.9	418.8	405.3	403.4	412.1	421.7	425.6
62.5°	321.6	324.5	293.7	289.8	283.1	284.0	289.8	297.5	298.5
65°	207.0	194.5	183.9	176.2	164.6	158.9	162.7	183.9	177.2
67.5°	80.9	85.7	69.3	80.9	75.1	63.5	73.2	81.8	78.0
70°	44.3	45.3	37.5	35.6	37.5	34.7	39.5	44.3	33.7
72.5°	27.9	27.9	20.2	20.2	26.0	17.3	20.2	31.8	25.0
75°	5.8	6.7	3.9	1.9	11.6	5.8	3.9	11.6	6.7
77.5°	0.0	6.7	0.0	0.0	0.0	0.0	1.9	1.9	1.9
80°	0.0	0.0	0.0	2.9	0.0	0.0	0.0	1.9	1.9
82.5°	0.0	1.9	0.0	0.0	0.0	0.0	0.0	1.9	0.0
85°	1.9	7.7	1.9	0.0	1.9	1.9	1.0	5.8	1.9
87.5°	12.5	5.8	1.0	5.8	4.8	5.8	6.7	5.8	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)