

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: P248163

Luminaire Tested: **LD8B175D010 ER8B175827 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248163
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 ER8B175827 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15380.0 lumens
Efficiency: N/A
Efficacy: 86.8 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

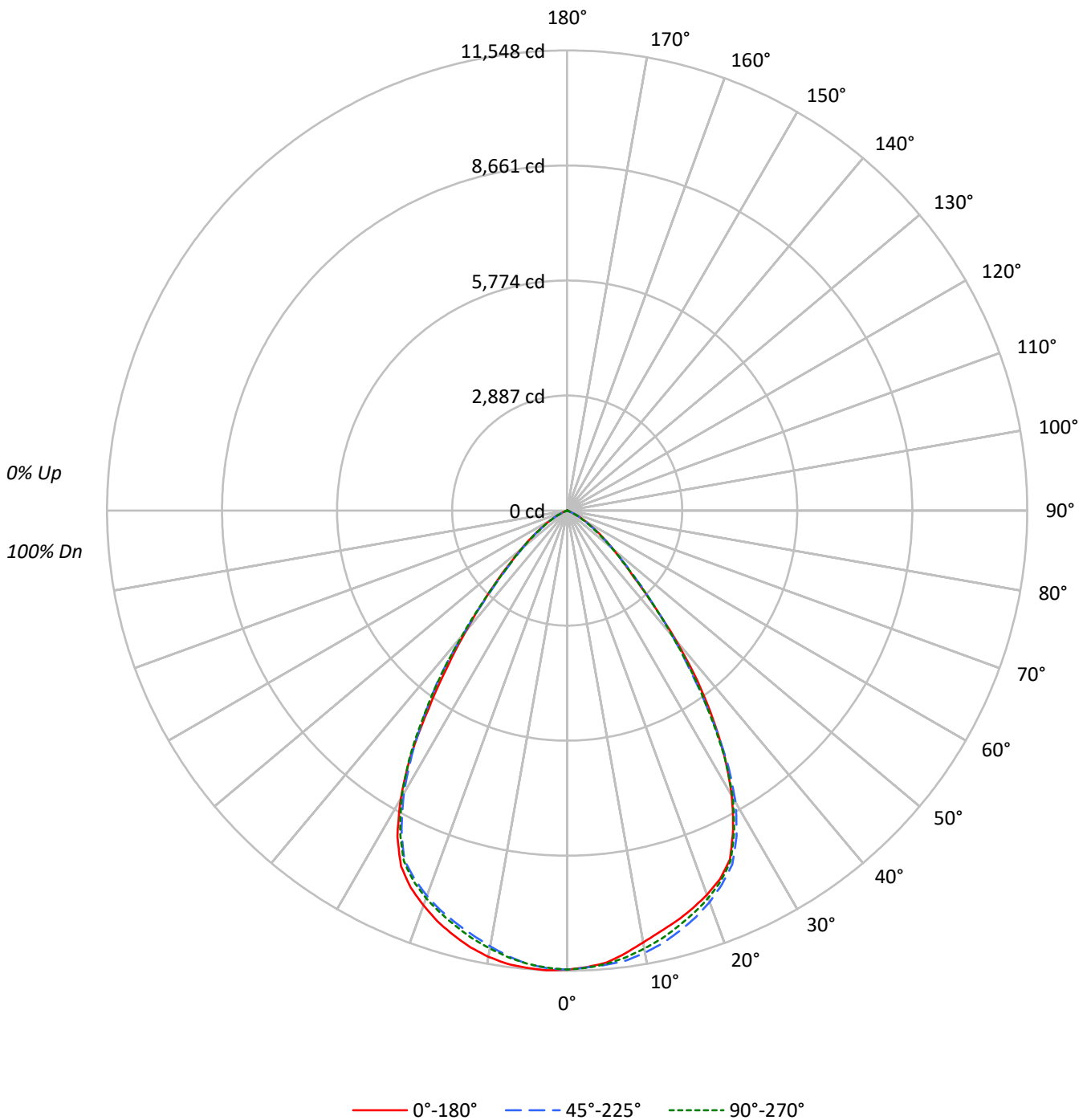
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	355216	355216	355216
5°	352474	353459	356672
10°	344545	349420	356052
15°	340123	344685	352091
20°	336652	339606	345965
25°	328765	330098	335359
30°	294275	295785	297444
35°	239824	235001	228064
40°	170073	165339	159245
45°	103694	105451	107575
50°	71643	70323	71796
55°	48627	45213	46633
60°	31552	27500	28869
65°	16614	13214	14221
70°	4391	3724	3345
75°	763	1513	882
80°	0	0	373
85°	743	743	743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1083.1	7.0
10°-20°	3051.2	19.8
20°-30°	4400.0	28.6
30°-40°	3864.2	25.1
40°-50°	1953.9	12.7
50°-60°	799.8	5.2
60°-70°	210.2	1.4
70°-80°	14.8	0.1
80°-90°	2.7	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°	8534.3	55.5
0°-40°	12398.5	80.6
0°-60°	15152.2	98.5
0°-90°	15380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15380.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11519	11519	11519	11519	11519	
5°	11387	11439	11419	11419	11523	###
15°	10654	10918	10797	10727	11029	3006
25°	9663	9801	9702	9667	9856	4365
35°	6371	6262	6243	6216	6058	3928
45°	2378	2489	2418	2357	2467	1962
55°	904	868	841	839	867	836
65°	228	202	181	179	195	233
75°	6	4	13	4	7	16
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°	11519.4	11519.4	11519.4	11519.4	11519.4	11519.4	11519.4	11519.4	11519.4
2.5°	11466.4	11522.6	11472.8	11502.4	11482.3	11449.5	11495.0	11473.8	11548.0
5°	11387.0	11454.8	11438.9	11476.0	11418.8	11358.4	11418.8	11424.1	11522.6
7.5°	11205.9	11322.4	11389.1	11433.6	11307.6	11209.1	11281.1	11345.7	11472.8
10°	11003.6	11144.5	11265.2	11334.0	11159.3	11015.2	11101.0	11211.2	11371.1
12.5°	10817.2	10972.9	11115.9	11182.6	10998.3	10836.2	10917.8	11054.4	11226.0
15°	10654.1	10782.2	10917.8	10986.6	10797.0	10643.5	10727.1	10853.2	11029.0
17.5°	10467.6	10588.4	10708.1	10762.1	10586.3	10452.8	10529.1	10637.1	10811.9
20°	10259.0	10362.8	10453.9	10517.4	10349.0	10221.9	10290.8	10391.4	10542.8
22.5°	10014.3	10092.7	10152.0	10209.2	10072.6	9946.5	10005.9	10085.3	10245.2
25°	9662.7	9742.1	9801.4	9866.0	9701.9	9593.8	9666.9	9700.8	9856.5
27.5°	9018.7	9119.3	9208.3	9265.5	9078.0	8984.8	9003.9	9060.0	9225.3
30°	8264.6	8313.3	8448.9	8465.8	8307.0	8144.9	8196.8	8256.1	8353.6
32.5°	7368.6	7396.1	7474.5	7482.9	7364.3	7239.3	7240.4	7213.9	7312.4
35°	6370.8	6308.3	6261.7	6293.5	6242.7	6264.9	6216.2	6094.4	6058.4
37.5°	5340.3	5300.0	5095.6	5079.7	5198.3	5270.4	5222.7	4951.6	4932.5
40°	4225.0	4179.4	4103.2	4091.5	4107.4	4148.7	4060.8	3980.3	3956.0
42.5°	3161.6	3185.9	3210.3	3232.5	3187.0	3098.0	3093.8	3079.0	3136.2
45°	2377.8	2429.7	2489.0	2518.7	2418.1	2349.2	2356.6	2389.5	2466.8
47.5°	1880.0	1890.6	1912.8	1938.3	1878.9	1791.0	1814.3	1867.3	1901.2
50°	1493.4	1504.0	1497.6	1494.5	1465.9	1412.9	1445.7	1484.9	1496.6
52.5°	1177.8	1164.0	1152.4	1144.9	1126.9	1105.8	1112.1	1144.9	1163.0
55°	904.5	893.9	868.5	857.9	841.0	835.7	838.9	864.3	867.4
57.5°	680.0	665.2	639.7	619.6	620.7	612.2	616.4	634.4	644.0
60°	511.6	502.0	457.6	460.7	445.9	443.8	453.3	463.9	468.1
62.5°	353.8	356.9	323.0	318.8	311.4	312.5	318.8	327.3	328.3
65°	227.7	213.9	202.3	193.8	181.1	174.8	179.0	202.3	194.9
67.5°	89.0	94.3	76.3	89.0	82.6	69.9	80.5	90.0	85.8
70°	48.7	49.8	41.3	39.2	41.3	38.1	43.4	48.7	37.1
72.5°	30.7	30.7	22.2	22.2	28.6	19.1	22.2	35.0	27.5
75°	6.4	7.4	4.2	2.1	12.7	6.4	4.2	12.7	7.4
77.5°	0.0	7.4	0.0	0.0	0.0	0.0	2.1	2.1	2.1
80°	0.0	0.0	0.0	3.2	0.0	0.0	0.0	2.1	2.1
82.5°	0.0	2.1	0.0	0.0	0.0	0.0	0.0	2.1	0.0
85°	2.1	8.5	2.1	0.0	2.1	2.1	1.1	6.4	2.1
87.5°	13.8	6.4	1.1	6.4	5.3	6.4	7.4	6.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)