

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: P248103

Luminaire Tested: **LD8B175D010 ER8B175850 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175850 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19086.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

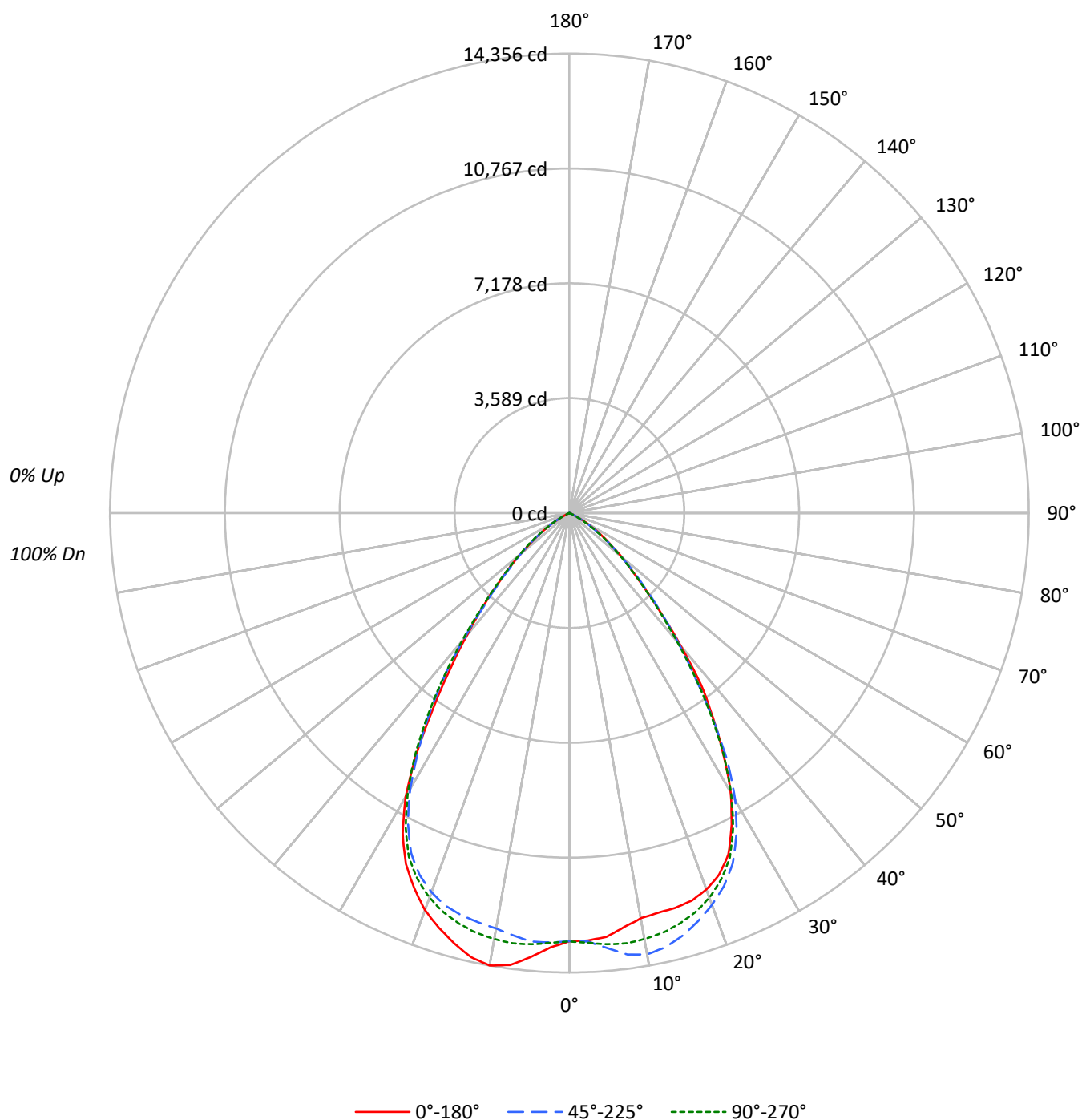
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	104	110	107	105	103		103	101	100		100	98	97		96	95	94
2	106	101	96	92	104	99	95	91		96	92	89		93	90	87		90	87	85
3	100	92	87	82	98	91	86	81		88	84	80		86	82	79		83	80	78
4	94	85	79	74	92	84	78	73		82	76	72		79	75	72		78	74	71
5	88	78	72	67	86	77	71	66		76	70	66		74	69	65		72	68	65
6	83	72	66	61	81	72	65	61		70	64	60		69	64	60		67	63	59
7	78	67	60	56	76	67	60	55		65	59	55		64	59	55		63	58	54
8	73	63	56	51	72	62	55	51		61	55	51		60	54	50		59	54	50
9	69	58	52	47	68	58	51	47		57	51	47		56	51	47		55	50	47
10	65	55	48	44	64	54	48	44		53	47	43		52	47	43		52	47	43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	412596	412596	412596
5°	411374	418561	431058
10°	402522	423151	449506
15°	407581	424118	444237
20°	410628	419560	433146
25°	400113	403849	411590
30°	358905	359841	364157
35°	294848	290500	277931
40°	217834	210794	200022
45°	144477	143382	141237
50°	102206	97764	95461
55°	68304	62159	58777
60°	38441	33359	30398
65°	14856	10682	8843
70°	4328	2470	2065
75°	1227	679	822
80°	0	0	0
85°	814	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1294.3	6.8
10°-20°	3753.5	19.7
20°-30°	5390.2	28.2
30°-40°	4764.7	25.0
40°-50°	2608.1	13.7
50°-60°	1073.7	5.6
60°-70°	192.4	1.0
70°-80°	8.3	0.0
80°-90°	0.7	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°	10438.1	54.7
0°-40°	15202.7	79.7
0°-60°	18884.6	98.9
0°-90°	19086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19086.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13380	13380	13380	13380	13380	
5°	13290	13647	13522	13440	13926	###
15°	12767	13670	13285	13011	13915	3606
25°	11760	12078	11870	11713	12097	5319
35°	7832	7763	7717	7612	7383	4859
45°	3313	3410	3288	3147	3239	2666
55°	1270	1211	1156	1118	1093	1151
65°	204	159	146	118	121	237
75°	10	5	6	7	7	16
85°	2	2	0	7	0	1
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°	13380.2	13380.2	13380.2	13380.2	13380.2	13380.2	13380.2	13380.2	13380.2
2.5°	13363.0	13387.0	13398.5	13459.1	13438.5	13409.9	13425.9	13475.1	13581.4
5°	13289.8	13417.9	13646.6	13724.4	13522.0	13345.9	13439.6	13708.4	13925.7
7.5°	13048.5	13371.0	13911.9	14029.7	13560.9	13156.0	13319.6	13899.4	14242.4
10°	12855.2	13255.5	13998.9	14173.8	13514.0	12990.2	13181.2	13890.2	14355.7
12.5°	12790.1	13159.4	13889.1	14086.9	13435.1	12931.9	13100.0	13756.4	14211.6
15°	12767.2	13063.4	13669.5	13828.5	13285.2	12874.7	13010.8	13538.0	13915.4
17.5°	12696.3	12917.0	13368.7	13498.0	13079.4	12761.5	12866.7	13276.1	13579.1
20°	12513.3	12700.9	13025.6	13116.0	12785.5	12536.2	12603.7	12911.3	13199.5
22.5°	12227.4	12348.6	12611.7	12655.1	12393.2	12194.2	12236.6	12466.4	12676.8
25°	11759.7	11844.3	12077.6	12089.0	11869.5	11695.6	11712.8	11904.9	12097.0
27.5°	10972.9	11133.0	11304.5	11353.7	11078.1	10874.5	10927.1	11055.2	11280.5
30°	10079.7	10197.5	10365.6	10327.9	10106.0	9923.0	9944.8	10059.1	10227.2
32.5°	8965.9	9090.5	9176.3	9098.5	8986.4	8822.9	8773.7	8822.9	8868.6
35°	7832.5	7874.9	7762.8	7718.2	7717.0	7666.7	7611.8	7463.2	7383.1
37.5°	6750.7	6618.0	6416.8	6331.0	6429.3	6551.7	6387.0	6192.6	6092.0
40°	5411.5	5415.0	5289.2	5200.0	5236.6	5195.4	5123.3	4998.7	4969.0
42.5°	4230.2	4242.8	4282.8	4232.5	4144.4	4010.6	3970.6	3976.3	4064.4
45°	3313.0	3338.2	3410.2	3403.4	3287.9	3203.2	3147.2	3226.1	3238.7
47.5°	2634.9	2670.3	2700.0	2697.8	2608.6	2523.9	2498.8	2513.6	2544.5
50°	2130.5	2127.1	2104.2	2074.5	2037.9	2020.7	1992.2	1989.9	1989.9
52.5°	1641.1	1646.8	1601.0	1603.3	1586.2	1538.1	1525.6	1500.4	1500.4
55°	1270.5	1247.7	1211.1	1175.6	1156.2	1123.0	1118.4	1092.1	1093.3
57.5°	902.3	881.7	838.3	816.5	801.7	792.5	773.1	752.5	743.3
60°	623.3	606.1	582.1	560.4	540.9	536.4	518.1	497.5	492.9
62.5°	376.2	371.7	329.4	321.4	306.5	299.6	287.0	273.3	274.5
65°	203.6	173.8	159.0	149.8	146.4	128.1	117.8	115.5	121.2
67.5°	54.9	54.9	44.6	42.3	42.3	30.9	35.5	34.3	44.6
70°	48.0	34.3	29.7	24.0	27.4	16.0	29.7	24.0	22.9
72.5°	25.2	13.7	11.4	11.4	12.6	8.0	18.3	10.3	8.0
75°	10.3	6.9	4.6	2.3	5.7	5.7	6.9	2.3	6.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.3	3.4	2.3	0.0	0.0	0.0	6.9	0.0	0.0
87.5°	0.0	2.3	1.1	0.0	0.0	0.0	2.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)