

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: P248170

Luminaire Tested: **LD8B200D010 ER8B200835 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248170  
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: LD8B200D010 ER8B200835 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19325.0 lumens  
Efficiency: N/A  
Efficacy: 86.5 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

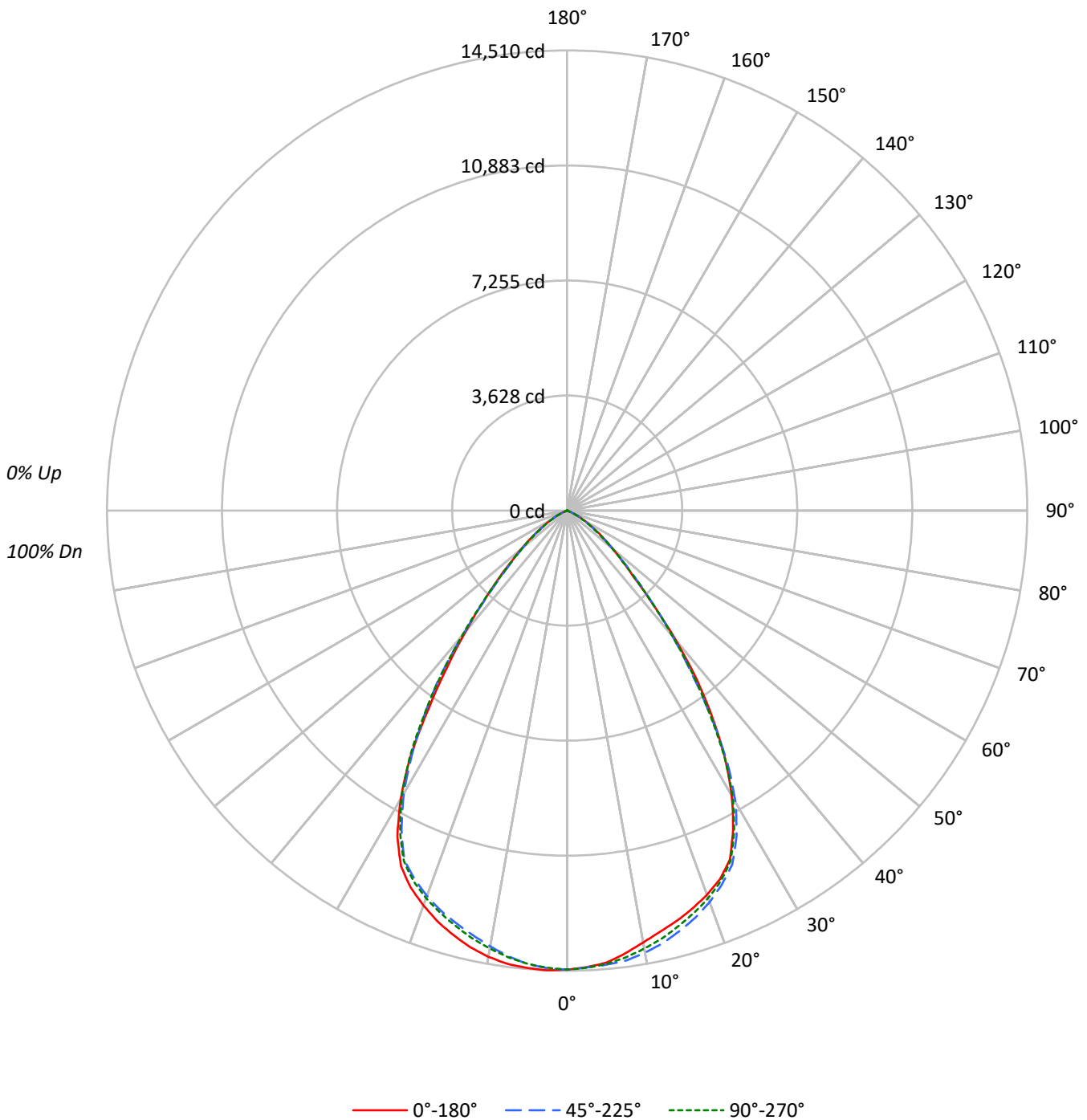
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
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°	446328	446328	446328
5°	442885	444120	448157
10°	432920	439048	447380
15°	427362	433098	442404
20°	423003	426717	434708
25°	413094	414767	421378
30°	369758	371652	373739
35°	301342	295277	286563
40°	213696	207751	200090
45°	130291	132498	135167
50°	90021	88361	90213
55°	61100	56810	58600
60°	39643	34555	36276
65°	20875	16607	17869
70°	5518	4679	4201
75°	953	1906	1108
80°	0	0	479
85°	955	955	955



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1361.0	7.0
10°-20°	3833.9	19.8
20°-30°	5528.6	28.6
30°-40°	4855.4	25.1
40°-50°	2455.1	12.7
50°-60°	1004.9	5.2
60°-70°	264.2	1.4
70°-80°	18.6	0.1
80°-90°	3.4	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°	10723.4	55.5
0°-40°	15578.8	80.6
0°-60°	19038.8	98.5
0°-90°	19325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19325.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	14474	14474	14474	14474	14474	
5°	14308	14373	14348	14348	14478	###
15°	13387	13718	13566	13479	13858	3777
25°	12141	12316	12190	12146	12385	5485
35°	8005	7868	7844	7811	7612	4935
45°	2988	3128	3038	2961	3100	2465
55°	1136	1091	1057	1054	1090	1050
65°	286	254	228	225	245	292
75°	8	5	16	5	9	20
85°	3	3	3	1	3	5
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°	14474.1	14474.1	14474.1	14474.1	14474.1	14474.1	14474.1	14474.1	14474.1
2.5°	14407.6	14478.1	14415.6	14452.8	14427.6	14386.3	14443.5	14416.9	14510.1
5°	14307.8	14393.0	14373.0	14419.6	14347.7	14271.9	14347.7	14354.4	14478.1
7.5°	14080.2	14226.6	14310.4	14366.3	14208.0	14084.2	14174.7	14255.9	14415.6
10°	13826.0	14003.0	14154.7	14241.2	14021.7	13840.7	13948.5	14086.9	14287.8
12.5°	13591.8	13787.4	13967.1	14050.9	13819.4	13615.8	13718.2	13889.9	14105.5
15°	13386.8	13547.9	13718.2	13804.7	13566.5	13373.5	13478.7	13637.0	13858.0
17.5°	13152.6	13304.3	13454.7	13522.6	13301.7	13134.0	13229.8	13365.6	13585.1
20°	12890.4	13020.9	13135.3	13215.2	13003.6	12843.9	12930.4	13056.8	13247.1
22.5°	12583.0	12681.5	12756.0	12827.9	12656.2	12497.9	12572.4	12672.2	12873.1
25°	12141.2	12241.0	12315.5	12396.7	12190.4	12054.7	12146.5	12189.1	12384.7
27.5°	11332.0	11458.5	11570.3	11642.1	11406.6	11289.5	11313.4	11383.9	11591.6
30°	10384.5	10445.7	10616.1	10637.3	10437.7	10234.1	10299.3	10373.8	10496.3
32.5°	9258.6	9293.2	9391.7	9402.3	9253.3	9096.2	9097.6	9064.3	9188.1
35°	8005.0	7926.4	7867.9	7907.8	7843.9	7871.9	7810.7	7657.6	7612.4
37.5°	6710.1	6659.5	6402.6	6382.7	6531.7	6622.2	6562.3	6221.6	6197.7
40°	5308.7	5251.5	5155.6	5141.0	5161.0	5212.9	5102.4	5001.3	4970.7
42.5°	3972.5	4003.1	4033.8	4061.7	4004.5	3892.7	3887.4	3868.7	3940.6
45°	2987.7	3052.9	3127.5	3164.7	3038.3	2951.8	2961.1	3002.4	3099.5
47.5°	2362.2	2375.5	2403.5	2435.4	2360.9	2250.4	2279.7	2346.3	2388.8
50°	1876.5	1889.8	1881.8	1877.8	1841.9	1775.3	1816.6	1865.8	1880.5
52.5°	1479.9	1462.6	1447.9	1438.6	1416.0	1389.4	1397.4	1438.6	1461.3
55°	1136.5	1123.2	1091.3	1078.0	1056.7	1050.0	1054.0	1086.0	1090.0
57.5°	854.4	835.8	803.8	778.5	779.9	769.2	774.5	797.2	809.1
60°	642.8	630.8	574.9	578.9	560.3	557.6	569.6	582.9	588.2
62.5°	444.5	448.5	405.9	400.6	391.3	392.6	400.6	411.2	412.6
65°	286.1	268.8	254.2	243.5	227.6	219.6	224.9	254.2	244.9
67.5°	111.8	118.4	95.8	111.8	103.8	87.8	101.1	113.1	107.8
70°	61.2	62.5	51.9	49.2	51.9	47.9	54.6	61.2	46.6
72.5°	38.6	38.6	27.9	27.9	35.9	24.0	27.9	43.9	34.6
75°	8.0	9.3	5.3	2.7	16.0	8.0	5.3	16.0	9.3
77.5°	0.0	9.3	0.0	0.0	0.0	0.0	2.7	2.7	2.7
80°	0.0	0.0	0.0	4.0	0.0	0.0	0.0	2.7	2.7
82.5°	0.0	2.7	0.0	0.0	0.0	0.0	0.0	2.7	0.0
85°	2.7	10.6	2.7	0.0	2.7	2.7	1.3	8.0	2.7
87.5°	17.3	8.0	1.3	8.0	6.7	8.0	9.3	8.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)