

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: P248175

Luminaire Tested: **LD8B175D010 ER8B175850 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248175  
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 ER8B175850 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16606.0 lumens  
Efficiency: N/A  
Efficacy: 93.7 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

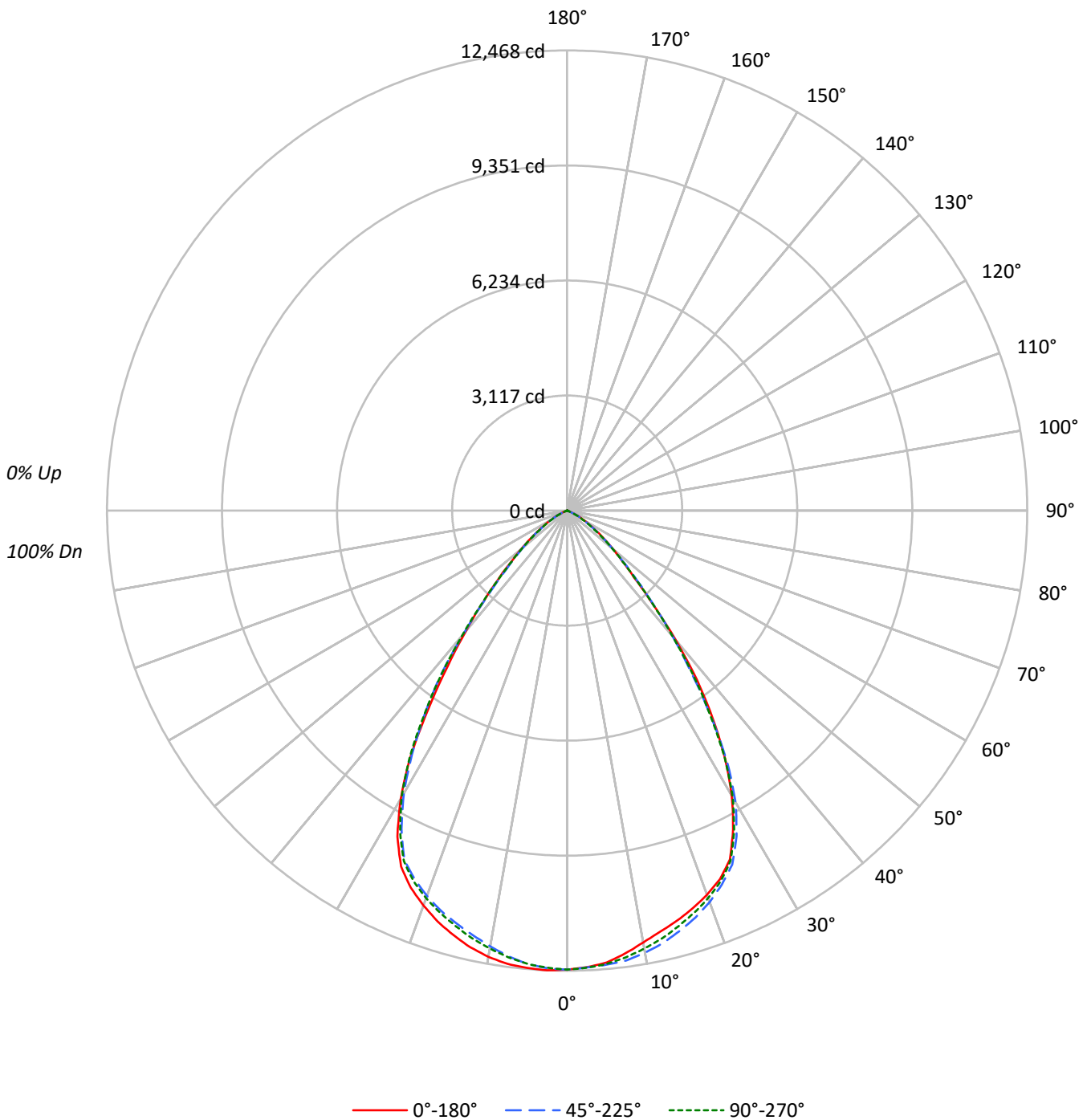
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	383530	383530	383530
5°	380571	381633	385103
10°	372009	377272	384433
15°	367233	372162	380159
20°	363489	366678	373547
25°	354970	356413	362091
30°	317733	319364	321155
35°	258943	253733	246242
40°	183630	178518	171937
45°	111962	113855	116149
50°	77356	75927	77519
55°	52503	48815	50353
60°	34068	29689	31176
65°	17942	14272	15352
70°	4742	4021	3606
75°	822	1632	953
80°	0	0	408
85°	814	814	814



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1169.5	7.0
10°-20°	3294.5	19.8
20°-30°	4750.7	28.6
30°-40°	4172.2	25.1
40°-50°	2109.7	12.7
50°-60°	863.5	5.2
60°-70°	227.0	1.4
70°-80°	16.0	0.1
80°-90°	2.9	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°	9214.6	55.5
0°-40°	13386.9	80.6
0°-60°	16360.1	98.5
0°-90°	16606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16606.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	12438	12438	12438	12438	12438	
5°	12295	12351	12329	12329	12441	###
15°	11503	11788	11658	11582	11908	3246
25°	10433	10583	10475	10438	10642	4713
35°	6879	6761	6740	6712	6541	4241
45°	2567	2687	2611	2544	2663	2118
55°	977	938	908	906	937	903
65°	246	218	196	193	210	251
75°	7	5	14	5	8	17
85°	2	2	2	1	2	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°	12437.6	12437.6	12437.6	12437.6	12437.6	12437.6	12437.6	12437.6	12437.6
2.5°	12380.5	12441.1	12387.3	12419.4	12397.6	12362.2	12411.3	12388.5	12468.5
5°	12294.7	12367.9	12350.7	12390.8	12329.0	12263.8	12329.0	12334.7	12441.1
7.5°	12099.1	12224.9	12297.0	12345.0	12208.9	12102.6	12180.3	12250.1	12387.3
10°	11880.7	12032.8	12163.2	12237.5	12048.8	11893.3	11985.9	12104.9	12277.5
12.5°	11679.5	11847.6	12001.9	12074.0	11875.0	11700.0	11788.1	11935.6	12120.9
15°	11503.3	11641.7	11788.1	11862.4	11657.7	11491.9	11582.2	11718.3	11908.2
17.5°	11302.1	11432.4	11561.7	11620.0	11430.1	11286.1	11368.4	11485.0	11673.7
20°	11076.8	11188.9	11287.2	11355.8	11174.0	11036.8	11111.1	11219.7	11383.3
22.5°	10812.6	10897.2	10961.3	11023.0	10875.5	10739.4	10803.5	10889.2	11061.9
25°	10432.9	10518.7	10582.8	10652.5	10475.3	10358.6	10437.5	10474.1	10642.2
27.5°	9737.6	9846.3	9942.3	10004.1	9801.7	9701.0	9721.6	9782.2	9960.6
30°	8923.4	8976.0	9122.4	9140.7	8969.2	8794.2	8850.2	8914.3	9019.5
32.5°	7955.9	7985.7	8070.3	8079.4	7951.4	7816.4	7817.6	7789.0	7895.3
35°	6878.7	6811.2	6760.9	6795.2	6740.3	6764.3	6711.7	6580.2	6541.3
37.5°	5766.0	5722.5	5501.8	5484.6	5612.7	5690.5	5639.0	5346.3	5325.7
40°	4561.8	4512.6	4430.3	4417.7	4434.8	4479.4	4384.5	4297.6	4271.3
42.5°	3413.6	3439.9	3466.2	3490.2	3441.1	3345.0	3340.4	3324.4	3386.2
45°	2567.4	2623.4	2687.4	2719.4	2610.8	2536.5	2544.5	2579.9	2663.4
47.5°	2029.9	2041.3	2065.3	2092.8	2028.7	1933.8	1959.0	2016.1	2052.7
50°	1612.5	1623.9	1617.0	1613.6	1582.7	1525.5	1561.0	1603.3	1615.9
52.5°	1271.7	1256.8	1244.2	1236.2	1216.8	1193.9	1200.8	1236.2	1255.7
55°	976.6	965.2	937.7	926.3	908.0	902.3	905.7	933.2	936.6
57.5°	734.2	718.2	690.7	669.0	670.1	661.0	665.6	685.0	695.3
60°	552.4	542.1	494.0	497.5	481.4	479.2	489.5	500.9	505.5
62.5°	382.0	385.4	348.8	344.2	336.2	337.4	344.2	353.4	354.5
65°	245.9	231.0	218.4	209.3	195.6	188.7	193.3	218.4	210.4
67.5°	96.1	101.8	82.3	96.1	89.2	75.5	86.9	97.2	92.6
70°	52.6	53.7	44.6	42.3	44.6	41.2	46.9	52.6	40.0
72.5°	33.2	33.2	24.0	24.0	30.9	20.6	24.0	37.7	29.7
75°	6.9	8.0	4.6	2.3	13.7	6.9	4.6	13.7	8.0
77.5°	0.0	8.0	0.0	0.0	0.0	0.0	2.3	2.3	2.3
80°	0.0	0.0	0.0	3.4	0.0	0.0	0.0	2.3	2.3
82.5°	0.0	2.3	0.0	0.0	0.0	0.0	0.0	2.3	0.0
85°	2.3	9.1	2.3	0.0	2.3	2.3	1.1	6.9	2.3
87.5°	14.9	6.9	1.1	6.9	5.7	6.9	8.0	6.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)