

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: P247794

Luminaire Tested: **LD8B175D010 ER8B175950 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175950 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17833.0 lumens  
Efficiency: N/A  
Efficacy: 100.6 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

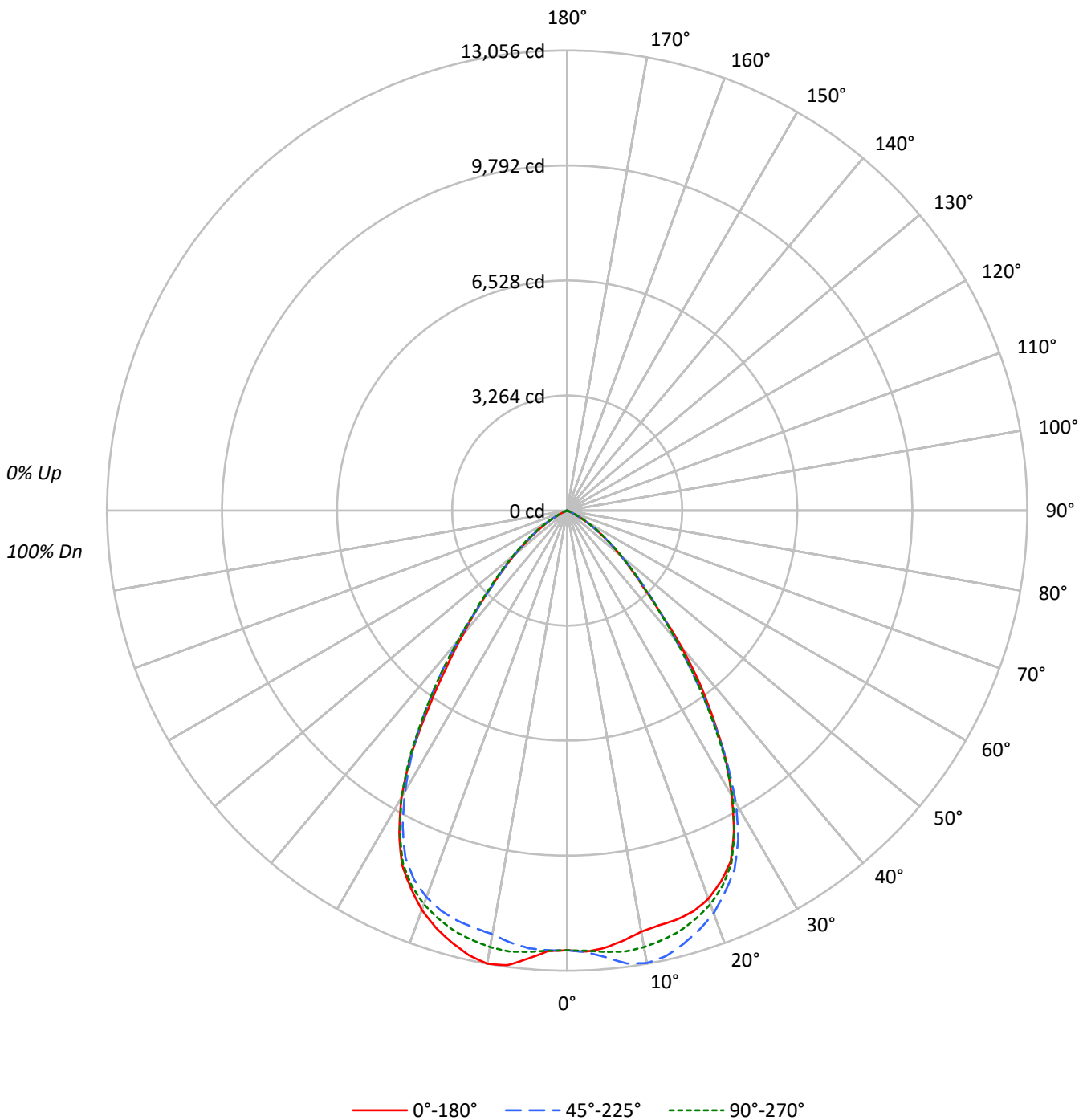
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	100	98	96	96	95	94	92					92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83					83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76					76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63					63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53					53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48					48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45					45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	384600	384600	384600
5°	385391	389034	395027
10°	379840	393824	408819
15°	383677	394244	404782
20°	384651	390013	395513
25°	373741	375334	377317
30°	332406	334333	334628
35°	273007	267127	259052
40°	202373	194326	185695
45°	131573	134796	130439
50°	94996	96641	92496
55°	63304	65148	59159
60°	35505	38330	33581
65°	11164	13900	11696
70°	2912	3381	2723
75°	1859	1370	2228
80°	373	1101	0
85°	4069	1097	1486



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1201.9	6.7
10°-20°	3481.0	19.5
20°-30°	4993.0	28.0
30°-40°	4406.0	24.7
40°-50°	2439.5	13.7
50°-60°	1075.0	6.0
60°-70°	217.2	1.2
70°-80°	16.3	0.1
80°-90°	3.0	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°	9675.9	54.3
0°-40°	14081.9	79.0
0°-60°	17596.5	98.7
0°-90°	17833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17833.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	12472	12472	12472	12472	12472	
5°	12450	12724	12568	12466	12762	###
15°	12018	12734	12349	12048	12680	3391
25°	10985	11231	11031	10866	11090	4962
35°	7252	7148	7096	7101	6882	4498
45°	3017	3145	3091	2975	2991	2457
55°	1178	1172	1212	1149	1100	1079
65°	153	164	190	173	160	211
75°	16	16	12	12	19	15
85°	12	6	3	9	4	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°	12472.3	12472.3	12472.3	12472.3	12472.3	12472.3	12472.3	12472.3	12472.3
2.5°	12524.3	12472.3	12541.0	12498.3	12501.4	12436.9	12487.9	12536.8	12509.8
5°	12450.4	12498.3	12724.2	12718.0	12568.1	12373.4	12466.0	12688.8	12761.7
7.5°	12297.4	12470.2	12960.6	13005.3	12620.1	12209.9	12360.9	12825.2	13010.5
10°	12130.8	12379.6	13038.6	13126.1	12577.4	12037.1	12207.9	12792.9	13056.3
12.5°	12050.6	12291.1	12948.1	13032.4	12479.6	11953.8	12126.6	12670.1	12914.8
15°	12018.4	12199.5	12733.6	12810.6	12349.4	11907.0	12047.5	12492.1	12679.5
17.5°	11920.5	12045.4	12468.1	12517.1	12143.3	11792.5	11902.8	12243.2	12406.7
20°	11721.7	11804.9	12160.0	12186.0	11885.1	11587.4	11672.7	11941.3	12052.7
22.5°	11393.7	11448.9	11711.3	11720.6	11523.9	11265.7	11336.5	11546.8	11588.4
25°	10984.6	10989.8	11231.3	11186.5	11031.4	10792.0	10865.9	11046.0	11089.7
27.5°	10248.5	10266.2	10510.9	10451.5	10268.3	10060.1	10105.9	10270.4	10314.1
30°	9335.5	9434.4	9576.0	9546.8	9389.6	9180.4	9189.7	9351.1	9397.9
32.5°	8375.6	8346.4	8419.3	8397.5	8316.2	8150.7	8205.9	8247.5	8259.0
35°	7252.3	7228.3	7148.1	7047.2	7096.1	7160.6	7101.3	7009.7	6881.6
37.5°	6172.6	6038.3	5882.2	5777.0	5950.9	6018.6	5960.3	5761.4	5658.3
40°	5027.4	4885.8	4801.5	4775.5	4827.5	4877.5	4811.9	4715.1	4613.1
42.5°	3877.0	3876.0	3896.8	3891.6	3856.2	3784.4	3732.3	3774.0	3757.3
45°	3017.1	3063.9	3145.1	3158.7	3091.0	2985.9	2975.4	3015.0	2991.1
47.5°	2455.9	2472.6	2501.7	2543.4	2504.9	2451.8	2424.7	2437.2	2415.3
50°	1980.2	1984.3	1997.9	2029.1	2014.5	1978.1	1952.0	1936.4	1928.1
52.5°	1555.4	1546.0	1556.4	1566.8	1586.6	1562.7	1540.8	1507.5	1481.5
55°	1177.5	1170.2	1172.3	1180.6	1211.8	1184.8	1149.4	1127.5	1100.4
57.5°	854.7	830.8	836.0	864.1	893.3	881.8	850.6	815.2	781.9
60°	575.7	570.5	569.5	599.7	621.5	617.4	582.0	555.9	544.5
62.5°	340.4	337.3	345.6	359.2	385.2	366.5	342.5	329.0	324.8
65°	153.0	160.3	164.5	174.9	190.5	186.4	172.8	158.2	160.3
67.5°	66.6	51.0	57.3	64.5	60.4	63.5	56.2	59.3	57.3
70°	32.3	34.4	32.3	40.6	37.5	39.6	32.3	38.5	30.2
72.5°	22.9	19.8	25.0	29.2	25.0	29.2	26.0	19.8	15.6
75°	15.6	9.4	15.6	9.4	11.5	16.7	12.5	16.7	18.7
77.5°	2.1	7.3	3.1	4.2	2.1	5.2	5.2	3.1	9.4
80°	2.1	3.1	2.1	4.2	6.2	1.0	4.2	9.4	0.0
82.5°	7.3	0.0	1.0	0.0	1.0	2.1	0.0	2.1	0.0
85°	11.5	3.1	6.2	14.6	3.1	6.2	9.4	4.2	4.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.0	3.1	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)