

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: P248187

Luminaire Tested: **LD8B175D010 ER8B175940 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248187  
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 ER8B175940 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14602.0 lumens  
Efficiency: N/A  
Efficacy: 82.4 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

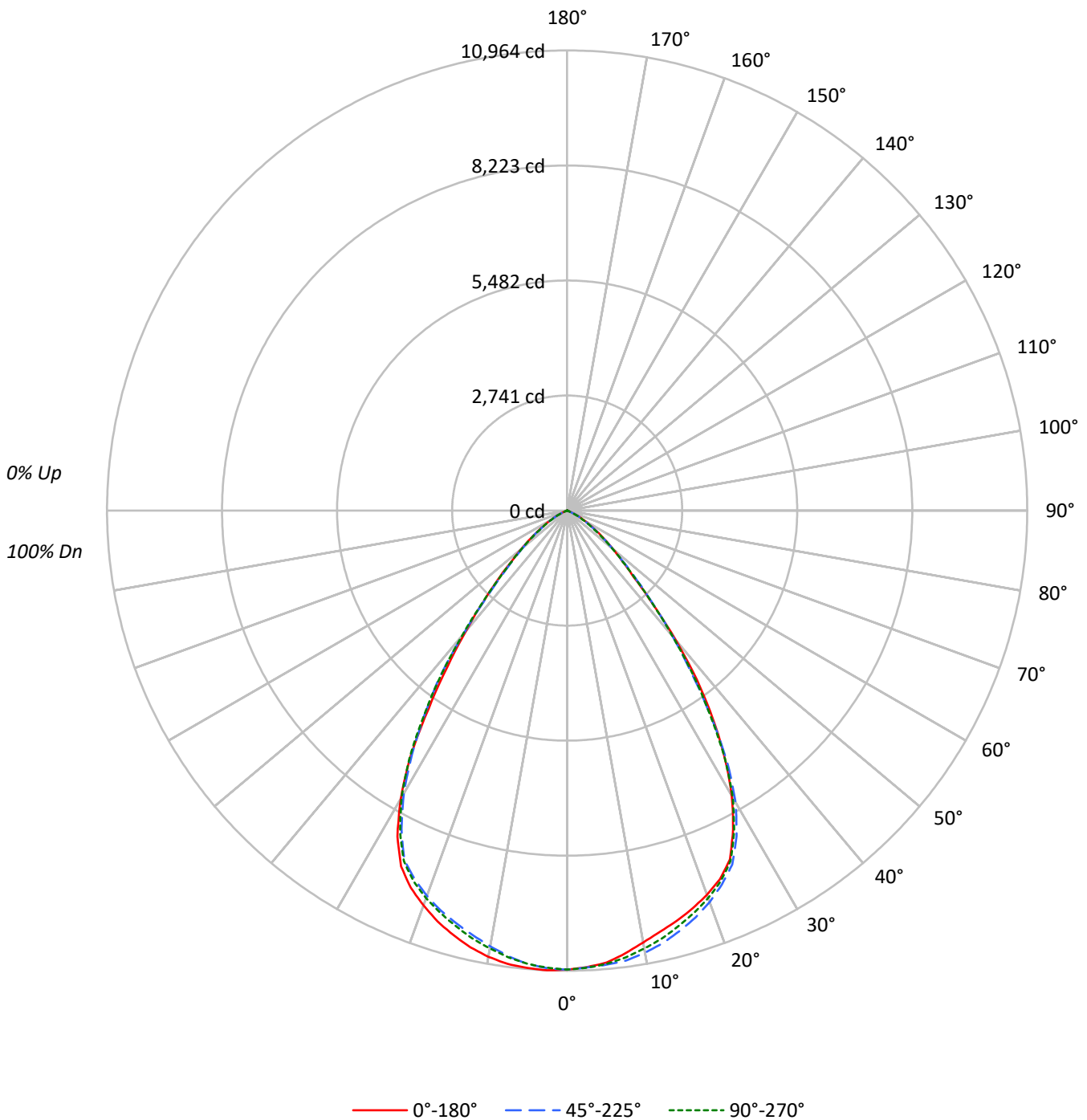
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
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°	337248	337248	337248
5°	334645	335580	338629
10°	327117	331745	338041
15°	322915	327251	334280
20°	319621	322427	328465
25°	312134	313399	318394
30°	279388	280823	282397
35°	227695	223113	216526
40°	161471	156974	151186
45°	98448	100113	102133
50°	68021	66764	68165
55°	46170	42923	44278
60°	29954	26106	27413
65°	15775	12550	13499
70°	4174	3534	3174
75°	715	1442	834
80°	0	0	355
85°	708	708	708



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1028.3	7.0
10°-20°	2896.9	19.8
20°-30°	4177.4	28.6
30°-40°	3668.7	25.1
40°-50°	1855.1	12.7
50°-60°	759.3	5.2
60°-70°	199.6	1.4
70°-80°	14.1	0.1
80°-90°	2.5	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°	8102.6	55.5
0°-40°	11771.4	80.6
0°-60°	14385.8	98.5
0°-90°	14602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14602.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10937	10937	10937	10937	10937	
5°	10811	10860	10841	10841	10940	###
15°	10115	10366	10251	10184	10471	2854
25°	9174	9306	9211	9178	9358	4145
35°	6049	5945	5927	5902	5752	3729
45°	2258	2363	2296	2237	2342	1863
55°	859	825	798	796	824	794
65°	216	192	172	170	185	221
75°	6	4	12	4	7	15
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°	10936.7	10936.7	10936.7	10936.7	10936.7	10936.7	10936.7	10936.7	10936.7
2.5°	10886.4	10939.7	10892.4	10920.6	10901.5	10870.3	10913.6	10893.4	10963.8
5°	10811.0	10875.3	10860.3	10895.5	10841.2	10783.8	10841.2	10846.2	10939.7
7.5°	10639.0	10749.6	10813.0	10855.2	10735.6	10642.0	10710.4	10771.8	10892.4
10°	10447.0	10580.7	10695.3	10760.7	10594.8	10458.0	10539.5	10644.1	10795.9
12.5°	10270.0	10417.8	10553.6	10616.9	10441.9	10288.1	10365.5	10495.2	10658.1
15°	10115.1	10236.8	10365.5	10430.9	10250.9	10105.1	10184.5	10304.2	10471.1
17.5°	9938.1	10052.8	10166.4	10217.7	10050.8	9924.1	9996.5	10099.0	10265.0
20°	9740.0	9838.6	9925.1	9985.4	9825.5	9704.8	9770.2	9865.7	10009.5
22.5°	9507.8	9582.2	9638.5	9692.8	9563.1	9443.4	9499.7	9575.1	9727.0
25°	9173.9	9249.3	9305.6	9367.0	9211.1	9108.5	9177.9	9210.1	9357.9
27.5°	8562.5	8658.0	8742.5	8796.8	8618.8	8530.3	8548.4	8601.7	8758.6
30°	7846.5	7892.8	8021.5	8037.6	7886.8	7732.9	7782.2	7838.5	7931.0
32.5°	6995.8	7022.0	7096.4	7104.4	6991.8	6873.1	6874.1	6849.0	6942.5
35°	6048.6	5989.2	5945.0	5975.2	5926.9	5948.0	5901.7	5786.1	5751.9
37.5°	5070.1	5031.9	4837.8	4822.8	4935.4	5003.8	4958.5	4701.1	4683.0
40°	4011.3	3968.0	3895.6	3884.6	3899.6	3938.9	3855.4	3779.0	3755.8
42.5°	3001.7	3024.8	3047.9	3069.0	3025.8	2941.3	2937.3	2923.2	2977.5
45°	2257.5	2306.8	2363.1	2391.3	2295.7	2230.4	2237.4	2268.6	2342.0
47.5°	1784.9	1795.0	1816.1	1840.2	1783.9	1700.4	1722.6	1772.8	1805.0
50°	1417.9	1427.9	1421.9	1418.9	1391.7	1341.4	1372.6	1409.8	1420.9
52.5°	1118.2	1105.1	1094.1	1087.0	1069.9	1049.8	1055.9	1087.0	1104.1
55°	858.8	848.7	824.6	814.5	798.4	793.4	796.4	820.6	823.6
57.5°	645.6	631.5	607.4	588.3	589.3	581.2	585.2	602.3	611.4
60°	485.7	476.6	434.4	437.4	423.3	421.3	430.4	440.4	444.5
62.5°	335.9	338.9	306.7	302.7	295.6	296.6	302.7	310.7	311.7
65°	216.2	203.1	192.1	184.0	172.0	165.9	169.9	192.1	185.0
67.5°	84.5	89.5	72.4	84.5	78.4	66.4	76.4	85.5	81.5
70°	46.3	47.3	39.2	37.2	39.2	36.2	41.2	46.3	35.2
72.5°	29.2	29.2	21.1	21.1	27.2	18.1	21.1	33.2	26.1
75°	6.0	7.0	4.0	2.0	12.1	6.0	4.0	12.1	7.0
77.5°	0.0	7.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0
80°	0.0	0.0	0.0	3.0	0.0	0.0	0.0	2.0	2.0
82.5°	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
85°	2.0	8.0	2.0	0.0	2.0	2.0	1.0	6.0	2.0
87.5°	13.1	6.0	1.0	6.0	5.0	6.0	7.0	6.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)