

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: P250181

Luminaire Tested: **LD8B175D010 ER8B175940 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175940 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16264.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

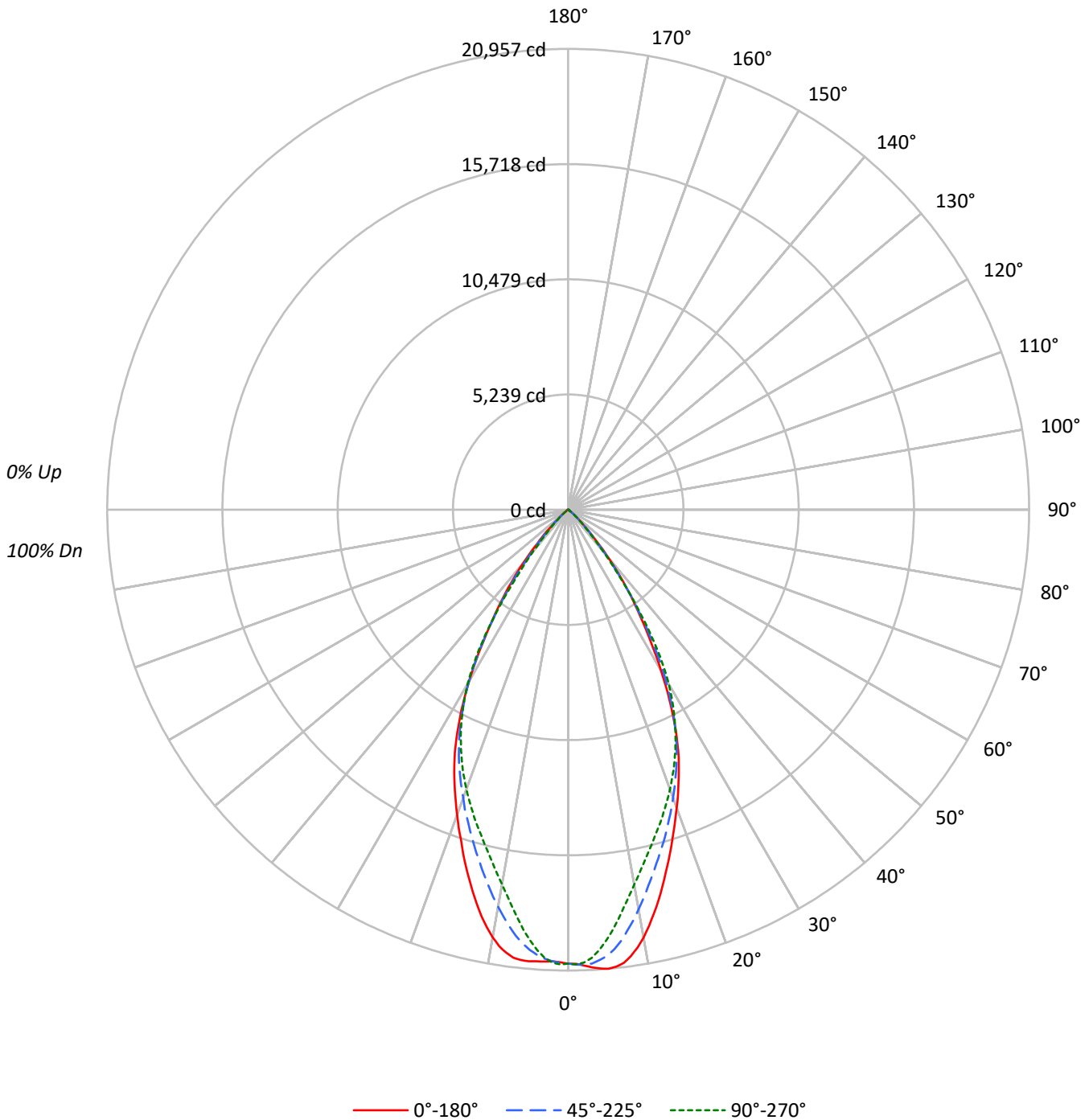
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94					94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87					87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76					76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71					71			
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66					66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62					62			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58					58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55					55			
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52					52			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	636477	636477	636477
5°	648696	609393	638128
10°	618481	542114	618325
15°	546142	488950	555435
20°	473286	443808	484485
25°	399885	393057	414567
30°	300553	325388	321101
35°	201193	212716	218193
40°	112719	96758	129284
45°	45301	39828	53835
50°	15644	15169	18537
55°	4317	5129	4860
60°	2479	3096	2788
65°	2196	1831	1459
70°	0	1361	911
75°	0	0	0
80°	0	0	888
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1873.8	11.5
10°-20°	4531.9	27.9
20°-30°	5311.7	32.7
30°-40°	3494.8	21.5
40°-50°	912.0	5.6
50°-60°	112.2	0.7
60°-70°	23.3	0.1
70°-80°	4.3	0.0
80°-90°	0.1	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°	11717.3	72.0
0°-40°	15212.1	93.5
0°-60°	16236.3	99.8
0°-90°	16264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16264.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20640	20640	20640	20640	20640	
5°	20957	20359	19687	20093	20615	###
15°	17108	16139	15316	16139	17399	4769
25°	11753	11638	11552	11748	12184	5298
35°	5345	5465	5651	5706	5796	3346
45°	1039	978	913	1059	1234	931
55°	80	85	95	95	90	106
65°	30	25	25	20	20	21
75°	0	5	0	0	0	3
85°	0	0	0	0	0	0
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°	20640.5	20640.5	20640.5	20640.5	20640.5	20640.5	20640.5	20640.5	20640.5
1°	20655.5	20685.7	20695.6	20725.8	20680.6	20650.5	20610.4	20580.2	20585.2
2°	20745.8	20760.9	20705.7	20685.7	20605.3	20580.2	20550.1	20545.1	20550.1
3°	20841.2	20811.0	20665.5	20530.1	20409.6	20394.5	20449.8	20530.1	20575.1
4°	20916.5	20836.2	20530.1	20279.1	20088.4	20073.4	20294.2	20499.9	20585.2
5°	20956.7	20811.0	20359.4	19937.9	19687.0	19782.3	20093.4	20459.7	20615.3
6°	20901.4	20685.7	20098.5	19536.5	19250.4	19375.8	19832.5	20364.4	20595.3
7°	20760.9	20484.9	19762.3	19099.8	18748.5	18944.2	19526.4	20203.8	20520.0
8°	20499.9	20168.7	19335.7	18592.9	18246.7	18467.4	19150.0	19973.0	20339.4
9°	20158.6	19792.4	18914.2	18131.2	17759.9	18020.9	18758.6	19666.9	20088.4
10°	19752.2	19360.7	18447.4	17649.5	17313.3	17559.2	18337.0	19310.5	19747.2
11°	19275.4	18899.1	17980.7	17197.9	16876.7	17117.6	17915.5	18884.1	19355.7
12°	18758.6	18412.3	17504.0	16761.3	16460.2	16691.0	17463.9	18442.4	18909.1
13°	18241.6	17895.4	17042.3	16339.7	16063.7	16284.5	17022.2	17960.7	18427.3
14°	17684.7	17368.5	16580.6	15938.2	15687.3	15898.1	16570.6	17473.8	17915.5
15°	17107.5	16856.6	16139.0	15551.8	15316.0	15516.7	16139.0	16972.0	17398.6
16°	16565.5	16334.7	15712.4	15170.4	14974.8	15135.3	15702.4	16470.3	16876.7
17°	16013.5	15802.8	15285.8	14794.0	14618.5	14774.0	15255.7	15963.4	16329.7
18°	15461.5	15285.8	14819.2	14397.7	14242.1	14382.6	14814.2	15451.5	15782.6
19°	14949.6	14789.0	14392.6	14036.3	13895.8	14021.2	14427.8	14959.7	15290.9
20°	14422.7	14292.2	13945.9	13654.9	13524.4	13639.8	13956.0	14472.9	14764.0
21°	13915.8	13800.4	13499.3	13253.4	13148.0	13243.4	13534.5	14001.2	14257.1
22°	13389.0	13323.7	13052.7	12847.0	12776.7	12836.9	13102.9	13504.4	13745.3
23°	12872.0	12811.8	12606.0	12435.5	12375.2	12435.5	12671.4	13032.6	13248.5
24°	12350.1	12284.9	12134.4	12023.9	11973.8	12023.9	12224.7	12530.8	12736.6
25°	11753.0	11742.9	11637.6	11577.3	11552.3	11607.4	11748.0	12013.9	12184.5
26°	11180.8	11150.7	11120.6	11110.6	11115.6	11145.7	11261.1	11461.9	11597.4
27°	10478.3	10523.5	10568.6	10628.9	10648.9	10674.1	10729.2	10874.7	10975.1
28°	9805.8	9891.1	10001.5	10122.0	10177.2	10177.2	10182.2	10262.5	10347.8
29°	9138.4	9228.7	9404.4	9585.0	9660.3	9650.2	9610.1	9645.2	9695.4
30°	8440.9	8556.3	8792.2	9028.0	9138.4	9098.3	9023.0	8987.9	9018.0
31°	7758.4	7873.8	8134.7	8390.6	8536.2	8491.1	8360.6	8335.5	8350.5
32°	7106.0	7221.4	7462.2	7733.2	7898.9	7838.7	7703.1	7663.0	7668.0
33°	6473.6	6564.0	6784.8	7035.8	7171.2	7156.1	7045.7	6995.6	7000.5
34°	5876.5	5951.8	6117.3	6308.1	6438.5	6433.5	6353.2	6358.2	6373.3
35°	5344.6	5384.7	5464.9	5570.4	5650.7	5695.8	5705.8	5746.0	5796.2
37.5°	4039.8	4054.8	3959.5	3854.0	3834.0	3964.5	4190.3	4386.1	4461.3
40°	2800.2	2765.1	2644.7	2459.0	2403.7	2549.4	2835.4	3111.4	3211.7
42.5°	1741.4	1726.3	1651.0	1510.6	1460.3	1545.7	1761.4	1972.3	2072.6
45°	1038.8	1018.7	978.5	923.4	913.3	948.4	1058.8	1179.3	1234.5
47.5°	597.1	592.2	567.0	547.0	542.0	567.0	617.3	687.5	702.6
50°	326.1	321.2	316.2	316.2	316.2	331.2	356.3	376.4	386.4
52.5°	160.6	165.6	160.6	165.6	170.7	180.6	175.6	195.7	195.7
55°	80.3	75.3	85.3	95.4	95.4	95.4	95.4	95.4	90.4
57.5°	60.2	65.2	55.3	60.2	55.3	55.3	50.2	55.3	60.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	40.2	35.1	40.2	45.2	50.2	45.2	35.1	40.2	45.2
62.5°	20.0	20.0	20.0	30.1	45.2	35.1	30.1	25.1	25.1
65°	30.1	20.0	25.1	30.1	25.1	25.1	20.0	25.1	20.0
67.5°	15.1	25.1	15.1	10.1	15.1	20.0	15.1	10.1	10.1
70°	0.0	5.0	5.0	15.1	15.1	15.1	15.1	10.1	10.1
72.5°	5.0	5.0	5.0	10.1	5.0	10.1	5.0	5.0	10.1
75°	0.0	0.0	5.0	5.0	0.0	5.0	0.0	0.0	0.0
77.5°	5.0	0.0	5.0	5.0	0.0	0.0	0.0	5.0	0.0
80°	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)