

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: P248118

Luminaire Tested: **LD8B175D010 ER8B175950 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175950 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17375.0 lumens
Efficiency: N/A
Efficacy: 98.1 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

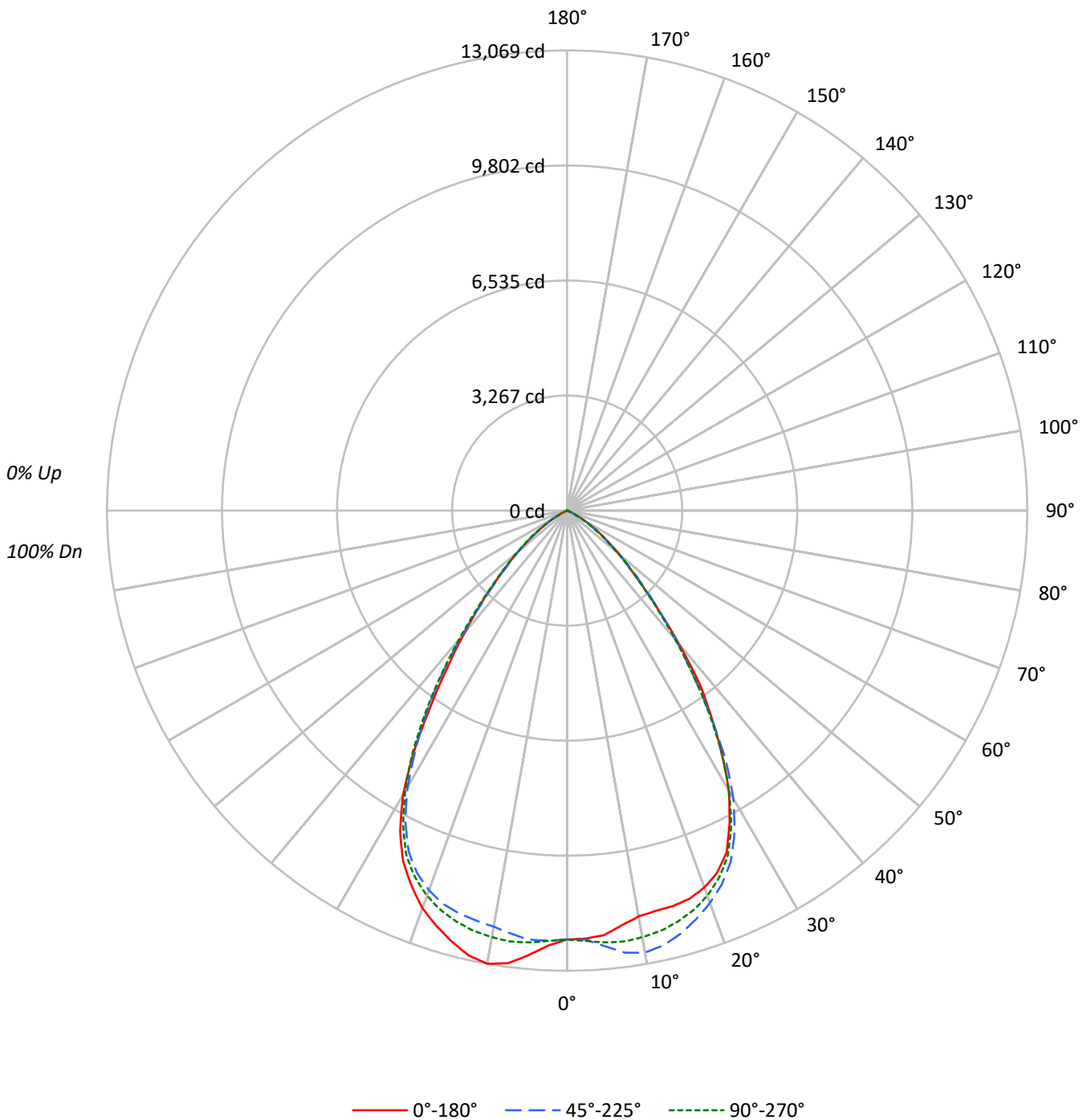
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	88	84	80	86	82	79	83	80	78					76				
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71					69				
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65					63				
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59					58				
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54					53				
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50					49				
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47					45				
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43					42				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	375608	375608	375608
5°	374495	381039	392414
10°	366438	385216	409207
15°	371044	386100	404411
20°	373816	381947	394315
25°	364245	367644	374694
30°	326731	327585	331513
35°	268418	264458	253014
40°	198307	191895	182089
45°	131525	130526	128573
50°	93043	88999	86903
55°	62181	56584	53509
60°	34993	30368	27673
65°	13520	9726	8055
70°	3940	2254	1875
75°	1120	620	739
80°	0	0	0
85°	743	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1178.3	6.8
10°-20°	3417.0	19.7
20°-30°	4907.0	28.2
30°-40°	4337.5	25.0
40°-50°	2374.3	13.7
50°-60°	977.5	5.6
60°-70°	175.1	1.0
70°-80°	7.6	0.0
80°-90°	0.6	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°	9502.3	54.7
0°-40°	13839.9	79.7
0°-60°	17191.7	98.9
0°-90°	17375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17375.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12181	12181	12181	12181	12181	
5°	12098	12423	12310	12235	12677	###
15°	11623	12444	12094	11844	12668	3283
25°	10706	10995	10805	10663	11013	4842
35°	7130	7067	7025	6929	6721	4423
45°	3016	3104	2993	2865	2948	2427
55°	1157	1102	1052	1018	995	1048
65°	185	145	133	107	110	216
75°	9	4	5	6	6	14
85°	2	2	0	6	0	1
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°	12180.7	12180.7	12180.7	12180.7	12180.7	12180.7	12180.7	12180.7	12180.7
2.5°	12165.1	12186.9	12197.3	12252.5	12233.8	12207.7	12222.3	12267.1	12363.9
5°	12098.4	12215.0	12423.2	12494.0	12309.8	12149.4	12234.8	12479.5	12677.3
7.5°	11878.8	12172.3	12664.8	12772.0	12345.2	11976.6	12125.5	12653.3	12965.6
10°	11702.8	12067.2	12743.9	12903.2	12302.5	11825.7	11999.5	12645.0	13068.7
12.5°	11643.5	11979.7	12644.0	12824.1	12230.6	11772.6	11925.6	12523.2	12937.5
15°	11622.7	11892.3	12444.1	12588.8	12094.3	11720.5	11844.4	12324.3	12667.9
17.5°	11558.1	11759.0	12170.3	12287.9	11906.9	11617.4	11713.2	12085.9	12361.8
20°	11391.5	11562.3	11857.9	11940.2	11639.3	11412.4	11473.8	11753.8	12016.2
22.5°	11131.3	11241.6	11481.1	11520.6	11282.2	11101.1	11139.6	11348.8	11540.4
25°	10705.5	10782.5	10994.9	11005.3	10805.4	10647.2	10662.8	10837.7	11012.6
27.5°	9989.2	10134.9	10291.1	10335.9	10085.0	9899.7	9947.5	10064.2	10269.2
30°	9176.1	9283.3	9436.4	9402.0	9200.1	9033.5	9053.3	9157.4	9310.4
32.5°	8162.1	8275.6	8353.7	8282.9	8180.8	8032.0	7987.2	8032.0	8073.6
35°	7130.4	7168.9	7066.9	7026.3	7025.2	6979.4	6929.4	6794.1	6721.2
37.5°	6145.5	6024.7	5841.5	5763.4	5853.0	5964.4	5814.4	5637.5	5545.8
40°	4926.4	4929.5	4815.0	4733.8	4767.1	4729.6	4664.1	4550.6	4523.5
42.5°	3851.0	3862.4	3898.9	3853.0	3772.9	3651.1	3614.6	3619.8	3700.0
45°	3016.0	3038.9	3104.5	3098.3	2993.1	2916.1	2865.1	2936.9	2948.3
47.5°	2398.7	2430.9	2458.0	2455.9	2374.7	2297.7	2274.8	2288.3	2316.4
50°	1939.5	1936.4	1915.6	1888.5	1855.2	1839.6	1813.6	1811.5	1811.5
52.5°	1494.0	1499.2	1457.5	1459.6	1444.0	1400.3	1388.8	1365.9	1365.9
55°	1156.6	1135.8	1102.5	1070.2	1052.5	1022.3	1018.2	994.2	995.3
57.5°	821.4	802.7	763.1	743.3	729.8	721.5	703.8	685.0	676.7
60°	567.4	551.8	529.9	510.1	492.4	488.3	471.6	452.9	448.7
62.5°	342.5	338.4	299.8	292.5	279.0	272.8	261.3	248.8	249.9
65°	185.3	158.2	144.7	136.4	133.3	116.6	107.2	105.1	110.4
67.5°	50.0	50.0	40.6	38.5	38.5	28.1	32.3	31.2	40.6
70°	43.7	31.2	27.1	21.9	25.0	14.6	27.1	21.9	20.8
72.5°	22.9	12.5	10.4	10.4	11.5	7.3	16.7	9.4	7.3
75°	9.4	6.2	4.2	2.1	5.2	5.2	6.2	2.1	6.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	3.1	2.1	0.0	0.0	0.0	6.2	0.0	0.0
87.5°	0.0	2.1	1.0	0.0	0.0	0.0	2.1	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)