

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: P248189

Luminaire Tested: **LD8B150D010 ER8B150950 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248189
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: LD8B150D010 ER8B150950 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13391.0 lumens
Efficiency: N/A
Efficacy: 84.5 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

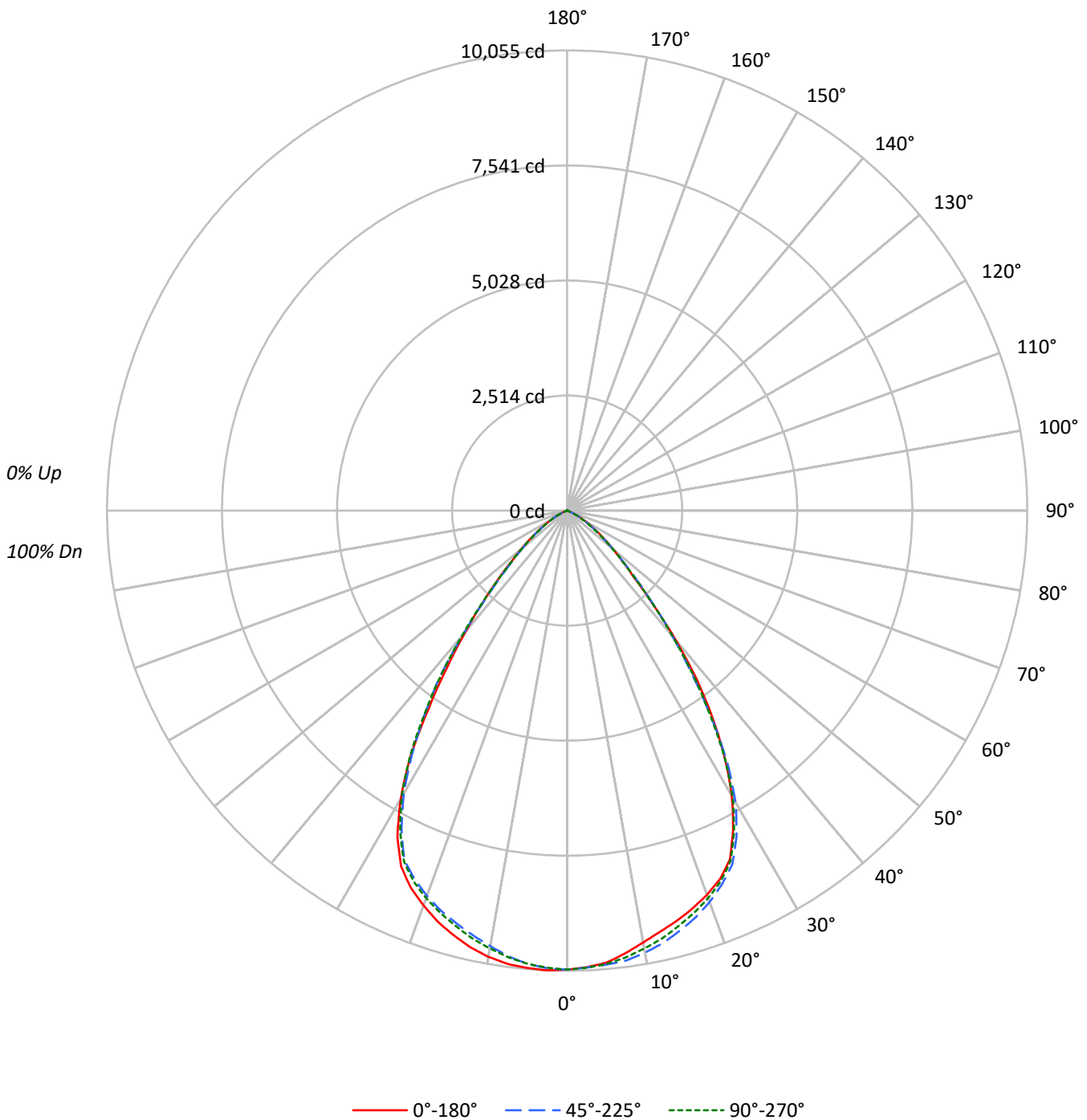
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	309279	309279	309279
5°	306891	307749	310544
10°	299988	304231	310008
15°	296134	300109	306558
20°	293116	295686	301225
25°	286248	287408	291988
30°	256219	257533	258978
35°	208809	204607	198569
40°	148078	143956	138651
45°	90284	91810	93664
50°	62379	61228	62509
55°	42337	39364	40606
60°	27469	23941	25138
65°	14469	11507	12382
70°	3823	3246	2912
75°	655	1322	774
80°	0	0	320
85°	637	637	637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	943.1	7.0
10°-20°	2656.6	19.8
20°-30°	3830.9	28.6
30°-40°	3364.5	25.1
40°-50°	1701.3	12.7
50°-60°	696.4	5.2
60°-70°	183.1	1.4
70°-80°	12.9	0.1
80°-90°	2.3	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°	7430.6	55.5
0°-40°	10795.1	80.6
0°-60°	13192.7	98.5
0°-90°	13391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13391.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10030	10030	10030	10030	10030	
5°	9914	9960	9942	9942	10032	935
15°	9276	9506	9401	9340	9603	2618
25°	8413	8534	8447	8417	8582	3801
35°	5547	5452	5435	5412	5275	3420
45°	2070	2167	2105	2052	2148	1708
55°	788	756	732	730	755	728
65°	198	176	158	156	170	203
75°	6	4	11	4	6	14
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°	10029.7	10029.7	10029.7	10029.7	10029.7	10029.7	10029.7	10029.7	10029.7
2.5°	9983.6	10032.4	9989.1	10014.9	9997.4	9968.8	10008.5	9990.0	10054.6
5°	9914.4	9973.4	9959.6	9991.9	9942.1	9889.5	9942.1	9946.7	10032.4
7.5°	9756.7	9858.1	9916.2	9955.0	9845.2	9759.5	9822.2	9878.4	9989.1
10°	9580.6	9703.2	9808.3	9868.3	9716.1	9590.7	9665.4	9761.3	9900.6
12.5°	9418.3	9553.8	9678.3	9736.4	9575.9	9434.9	9505.9	9624.8	9774.2
15°	9276.2	9387.8	9505.9	9565.8	9400.7	9267.0	9339.9	9449.6	9602.7
17.5°	9113.9	9219.1	9323.3	9370.3	9217.2	9101.0	9167.4	9261.5	9413.6
20°	8932.3	9022.6	9101.9	9157.3	9010.6	8900.0	8959.9	9047.5	9179.4
22.5°	8719.2	8787.5	8839.1	8888.9	8770.0	8660.2	8711.9	8781.0	8920.3
25°	8413.1	8482.2	8533.9	8590.1	8447.2	8353.1	8416.8	8446.3	8581.8
27.5°	7852.4	7940.0	8017.5	8067.3	7904.0	7822.9	7839.5	7888.4	8032.2
30°	7195.8	7238.2	7356.3	7371.0	7232.7	7091.6	7136.8	7188.4	7273.3
32.5°	6415.6	6439.6	6507.8	6515.2	6411.9	6303.1	6304.0	6281.0	6366.8
35°	5546.9	5492.5	5451.9	5479.6	5435.3	5454.7	5412.3	5306.2	5274.9
37.5°	4649.6	4614.6	4436.6	4422.8	4526.1	4588.8	4547.3	4311.2	4294.6
40°	3678.6	3638.9	3572.5	3562.4	3576.2	3612.2	3535.6	3465.6	3444.4
42.5°	2752.7	2773.9	2795.1	2814.5	2774.8	2697.4	2693.7	2680.8	2730.6
45°	2070.3	2115.5	2167.1	2193.0	2105.3	2045.4	2051.9	2080.4	2147.8
47.5°	1636.9	1646.1	1665.5	1687.6	1636.0	1559.4	1579.7	1625.8	1655.3
50°	1300.3	1309.5	1304.0	1301.2	1276.3	1230.2	1258.8	1292.9	1303.0
52.5°	1025.5	1013.5	1003.3	996.9	981.2	962.8	968.3	996.9	1012.6
55°	787.5	778.3	756.2	747.0	732.2	727.6	730.4	752.5	755.3
57.5°	592.0	579.1	557.0	539.5	540.4	533.0	536.7	552.4	560.7
60°	445.4	437.1	398.4	401.1	388.2	386.4	394.7	403.9	407.6
62.5°	308.0	310.8	281.3	277.6	271.1	272.0	277.6	285.0	285.9
65°	198.3	186.3	176.1	168.8	157.7	152.2	155.8	176.1	169.7
67.5°	77.5	82.1	66.4	77.5	71.9	60.9	70.1	78.4	74.7
70°	42.4	43.3	36.0	34.1	36.0	33.2	37.8	42.4	32.3
72.5°	26.7	26.7	19.4	19.4	24.9	16.6	19.4	30.4	24.0
75°	5.5	6.5	3.7	1.8	11.1	5.5	3.7	11.1	6.5
77.5°	0.0	6.5	0.0	0.0	0.0	0.0	1.8	1.8	1.8
80°	0.0	0.0	0.0	2.8	0.0	0.0	0.0	1.8	1.8
82.5°	0.0	1.8	0.0	0.0	0.0	0.0	0.0	1.8	0.0
85°	1.8	7.4	1.8	0.0	1.8	1.8	0.9	5.5	1.8
87.5°	12.0	5.5	0.9	5.5	4.6	5.5	6.5	5.5	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)