

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: P248090

Luminaire Tested: **LSR8B150D010 EC8B150827 8LBW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248090  
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: LSR8B150D010 EC8B150827 8LBW0WH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15657.0 lumens  
Efficiency: N/A  
Efficacy: 98.8 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

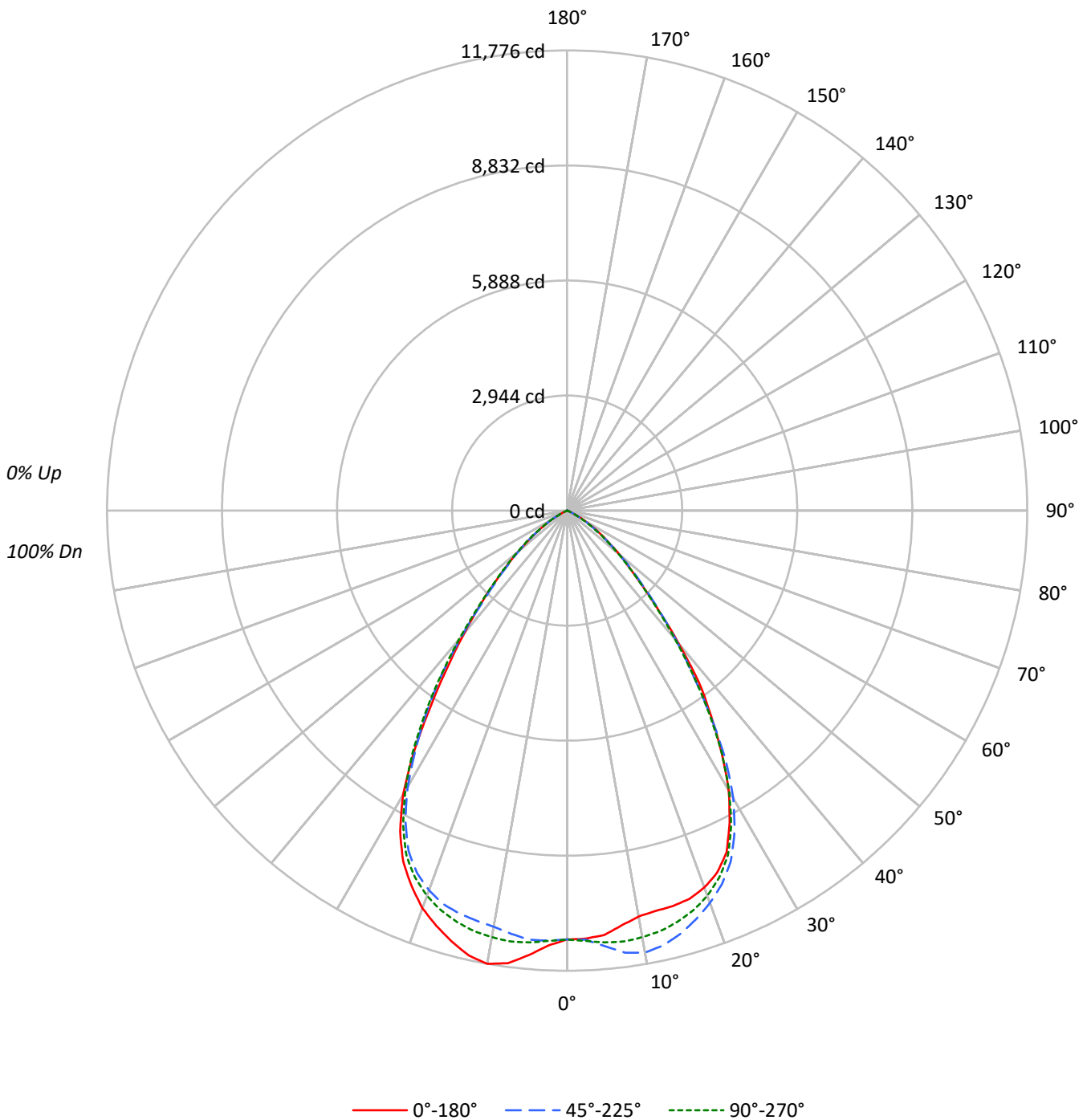
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	90°	180°
0°	338469	338469	338469
5°	337468	343361	353613
10°	330207	347125	368746
15°	334354	347922	364423
20°	336856	344180	355324
25°	328227	331293	337645
30°	294425	295194	298733
35°	241875	238310	228000
40°	178699	172923	164083
45°	118521	117623	115861
50°	83847	80201	78311
55°	56036	50993	48219
60°	31533	27364	24934
65°	12185	8763	7253
70°	3552	2029	1695
75°	1001	560	667
80°	0	0	0
85°	672	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1061.8	6.8
10°-20°	3079.1	19.7
20°-30°	4421.8	28.2
30°-40°	3908.7	25.0
40°-50°	2139.6	13.7
50°-60°	880.8	5.6
60°-70°	157.8	1.0
70°-80°	6.8	0.0
80°-90°	0.5	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°	8562.7	54.7
0°-40°	12471.4	79.7
0°-60°	15491.8	98.9
0°-90°	15657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15657.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10976	10976	10976	10976	10976	
5°	10902	11195	11093	11025	11424	###
15°	10473	11214	10898	10673	11415	2958
25°	9647	9908	9737	9608	9924	4364
35°	6425	6368	6331	6244	6057	3986
45°	2718	2798	2697	2582	2657	2187
55°	1042	994	948	918	897	945
65°	167	130	120	97	99	194
75°	8	4	5	6	6	13
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°	10976.3	10976.3	10976.3	10976.3	10976.3	10976.3	10976.3	10976.3	10976.3
2.5°	10962.2	10981.9	10991.3	11041.0	11024.1	11000.7	11013.8	11054.1	11141.4
5°	10902.2	11007.2	11194.9	11258.7	11092.6	10948.1	11025.1	11245.5	11423.8
7.5°	10704.2	10968.8	11412.5	11509.1	11124.5	10792.4	10926.6	11402.2	11683.6
10°	10545.7	10874.0	11483.8	11627.3	11086.0	10656.4	10813.0	11394.7	11776.5
12.5°	10492.2	10795.2	11393.7	11556.0	11021.3	10608.5	10746.4	11284.9	11658.3
15°	10473.4	10716.4	11213.6	11344.0	10898.4	10561.6	10673.3	11105.7	11415.3
17.5°	10415.3	10596.3	10966.9	11072.9	10729.5	10468.7	10555.0	10890.9	11139.5
20°	10265.2	10419.0	10685.5	10759.6	10488.4	10283.9	10339.3	10591.6	10828.0
22.5°	10030.6	10130.1	10345.8	10381.5	10166.7	10003.4	10038.1	10226.7	10399.3
25°	9646.9	9716.3	9907.7	9917.1	9737.0	9594.4	9608.5	9766.1	9923.7
27.5°	9001.5	9132.8	9273.5	9313.9	9087.8	8920.8	8964.0	9069.0	9253.8
30°	8268.8	8365.4	8503.3	8472.4	8290.4	8140.3	8158.1	8251.9	8389.8
32.5°	7355.0	7457.3	7527.7	7463.9	7371.9	7237.8	7197.4	7237.8	7275.3
35°	6425.3	6460.1	6368.1	6331.5	6330.6	6289.3	6244.3	6122.3	6056.7
37.5°	5537.9	5429.0	5263.9	5193.6	5274.2	5374.6	5239.5	5080.0	4997.5
40°	4439.3	4442.1	4338.9	4265.7	4295.8	4262.0	4202.9	4100.6	4076.2
42.5°	3470.2	3480.5	3513.3	3472.1	3399.8	3290.1	3257.2	3261.9	3334.2
45°	2717.8	2738.4	2797.5	2791.9	2697.2	2627.7	2581.8	2646.5	2656.8
47.5°	2161.5	2190.6	2215.0	2213.1	2139.9	2070.5	2049.8	2062.0	2087.4
50°	1747.8	1744.9	1726.2	1701.8	1671.8	1657.7	1634.2	1632.4	1632.4
52.5°	1346.2	1350.9	1313.4	1315.3	1301.2	1261.8	1251.5	1230.8	1230.8
55°	1042.3	1023.5	993.5	964.4	948.5	921.3	917.5	895.9	896.9
57.5°	740.2	723.3	687.7	669.8	657.6	650.1	634.2	617.3	609.8
60°	511.3	497.2	477.5	459.7	443.7	440.0	425.0	408.1	404.3
62.5°	308.6	304.9	270.2	263.6	251.4	245.8	235.5	224.2	225.2
65°	167.0	142.6	130.4	122.9	120.1	105.1	96.6	94.8	99.4
67.5°	45.0	45.0	36.6	34.7	34.7	25.3	29.1	28.1	36.6
70°	39.4	28.1	24.4	19.7	22.5	13.1	24.4	19.7	18.8
72.5°	20.6	11.3	9.4	9.4	10.3	6.6	15.0	8.4	6.6
75°	8.4	5.6	3.8	1.9	4.7	4.7	5.6	1.9	5.6
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°	1.9	2.8	1.9	0.0	0.0	0.0	5.6	0.0	0.0
87.5°	0.0	1.9	0.9	0.0	0.0	0.0	1.9	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)