

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: P247778

Luminaire Tested: **LSR8B150D010 EC8B150850 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150850 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17350.0 lumens  
Efficiency: N/A  
Efficacy: 109.5 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

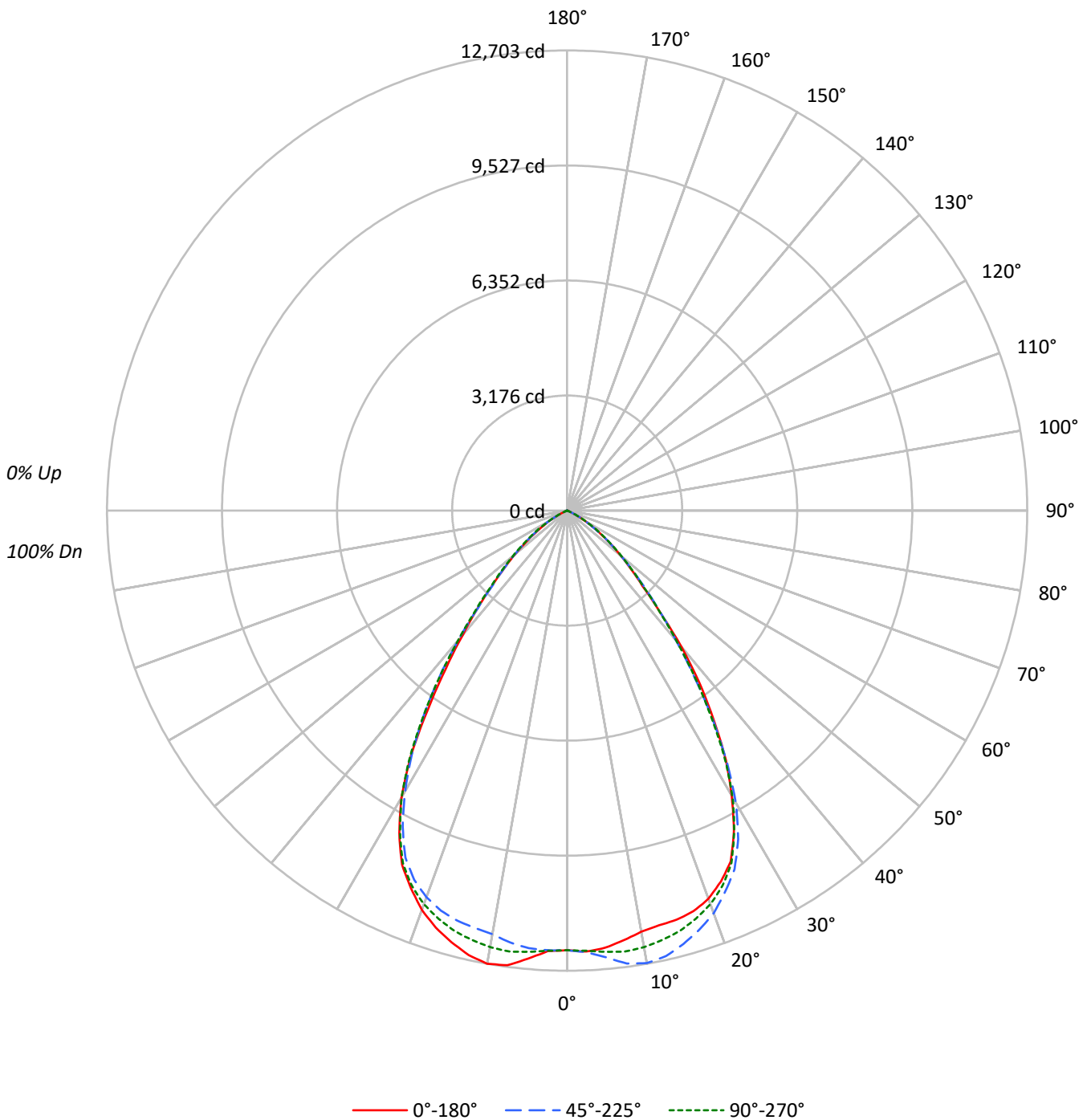
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	100	98	96	96	95	94	92					92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83					83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76					76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63					63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53					53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48					48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45					45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

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

	0°	90°	180°
0°	374183	374183	374183
5°	374953	378497	384329
10°	369554	383159	397747
15°	373285	383568	393816
20°	374232	379450	384802
25°	363619	365167	367100
30°	323401	325278	325566
35°	265610	259892	252035
40°	196894	189065	180664
45°	128010	131146	126903
50°	92420	94027	89992
55°	61589	63385	57557
60°	34543	37293	32668
65°	10864	13528	11383
70°	2831	3291	2651
75°	1811	1322	2168
80°	355	1083	0
85°	3927	1061	1451



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1169.4	6.7
10°-20°	3386.7	19.5
20°-30°	4857.8	28.0
30°-40°	4286.7	24.7
40°-50°	2373.5	13.7
50°-60°	1045.9	6.0
60°-70°	211.3	1.2
70°-80°	15.8	0.1
80°-90°	2.9	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°	9413.9	54.3
0°-40°	13700.5	79.0
0°-60°	17119.9	98.7
0°-90°	17350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17350.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	12134	12134	12134	12134	12134	
5°	12113	12380	12228	12128	12416	###
15°	11693	12389	12015	11721	12336	3299
25°	10687	10927	10733	10572	10789	4828
35°	7056	6954	6904	6909	6695	4377
45°	2935	3060	3007	2895	2910	2391
55°	1146	1140	1179	1118	1071	1050
65°	149	160	185	168	156	205
75°	15	15	11	12	18	15
85°	11	6	3	9	4	5
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°	12134.5	12134.5	12134.5	12134.5	12134.5	12134.5	12134.5	12134.5	12134.5
2.5°	12185.1	12134.5	12201.3	12159.8	12162.8	12100.0	12149.7	12197.3	12170.9
5°	12113.2	12159.8	12379.6	12373.5	12227.7	12038.3	12128.4	12345.2	12416.1
7.5°	11964.3	12132.5	12609.5	12653.1	12278.3	11879.2	12026.1	12477.9	12658.1
10°	11802.3	12044.3	12685.5	12770.6	12236.8	11711.1	11877.2	12446.5	12702.7
12.5°	11724.3	11958.2	12597.4	12679.4	12141.6	11630.1	11798.2	12326.9	12565.0
15°	11692.9	11869.1	12388.7	12463.7	12015.0	11584.5	11721.2	12153.7	12336.0
17.5°	11597.6	11719.2	12130.4	12178.0	11814.4	11473.1	11580.4	11911.6	12070.7
20°	11404.2	11485.2	11830.6	11855.9	11563.2	11273.5	11356.6	11617.9	11726.3
22.5°	11085.1	11138.8	11394.1	11403.2	11211.7	10960.5	11029.4	11234.0	11274.5
25°	10687.1	10692.1	10927.1	10883.6	10732.6	10499.7	10571.6	10746.8	10789.4
27.5°	9970.9	9988.2	10226.2	10168.5	9990.2	9787.6	9832.2	9992.2	10034.8
30°	9082.6	9178.9	9316.6	9288.2	9135.3	8931.7	8940.8	9097.8	9143.4
32.5°	8148.7	8120.4	8191.3	8170.0	8091.0	7930.0	7983.6	8024.2	8035.3
35°	7055.8	7032.5	6954.5	6856.3	6903.9	6966.7	6909.0	6819.8	6695.2
37.5°	6005.5	5874.8	5722.9	5620.6	5789.7	5855.5	5798.8	5605.4	5505.1
40°	4891.3	4753.5	4671.5	4646.1	4696.8	4745.4	4681.6	4587.4	4488.1
42.5°	3772.0	3771.0	3791.3	3786.2	3751.8	3681.9	3631.2	3671.7	3655.5
45°	2935.4	2981.0	3060.0	3073.1	3007.3	2905.0	2894.9	2933.3	2910.0
47.5°	2389.4	2405.6	2434.0	2474.5	2437.0	2385.4	2359.0	2371.2	2349.9
50°	1926.5	1930.6	1943.7	1974.1	1960.0	1924.5	1899.2	1884.0	1875.9
52.5°	1513.3	1504.1	1514.3	1524.4	1543.7	1520.4	1499.1	1466.7	1441.3
55°	1145.6	1138.5	1140.5	1148.6	1179.0	1152.7	1118.2	1097.0	1070.6
57.5°	831.6	808.3	813.4	840.7	869.1	857.9	827.5	793.1	760.7
60°	560.1	555.1	554.1	583.4	604.7	600.6	566.2	540.9	529.7
62.5°	331.2	328.2	336.3	349.4	374.8	356.5	333.2	320.1	316.0
65°	148.9	156.0	160.0	170.2	185.4	181.3	168.1	154.0	156.0
67.5°	64.8	49.6	55.7	62.8	58.7	61.8	54.7	57.7	55.7
70°	31.4	33.4	31.4	39.5	36.5	38.5	31.4	37.5	29.4
72.5°	22.3	19.2	24.3	28.4	24.3	28.4	25.3	19.2	15.2
75°	15.2	9.1	15.2	9.1	11.1	16.2	12.2	16.2	18.2
77.5°	2.0	7.1	3.0	4.1	2.0	5.1	5.1	3.0	9.1
80°	2.0	3.0	2.0	4.1	6.1	1.0	4.1	9.1	0.0
82.5°	7.1	0.0	1.0	0.0	1.0	2.0	0.0	2.0	0.0
85°	11.1	3.0	6.1	14.2	3.0	6.1	9.1	4.1	4.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.0	3.0	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)