

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: P247934

Luminaire Tested: **LSR8B150D010 EC8B150940 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150940 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14490.0 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

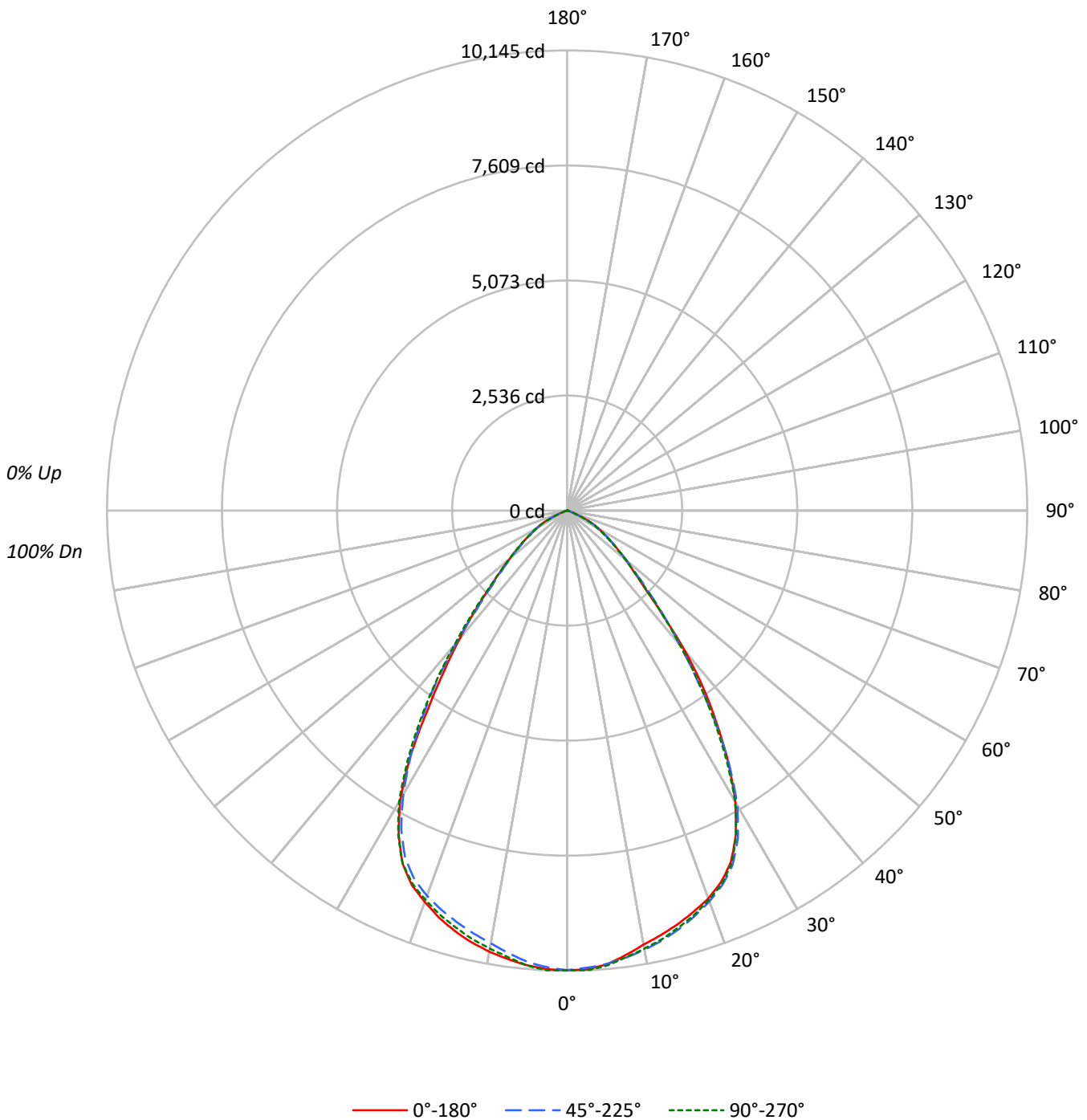
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74					74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61					61			
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

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

	0°	90°	180°
0°	312452	312452	312452
5°	310835	311717	311550
10°	304193	307008	309156
15°	301210	303627	306159
20°	298629	299709	301202
25°	290780	291900	292145
30°	263931	263678	261902
35°	217305	212445	201814
40°	162493	155179	148151
45°	105224	107981	105534
50°	80546	80119	79774
55°	63111	61965	61439
60°	50208	47463	48123
65°	32951	29113	29441
70°	11802	10837	11243
75°	4241	5195	4241
80°	2681	3800	3161
85°	637	1875	1274



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	949.1	6.5
10°-20°	2675.7	18.5
20°-30°	3879.2	26.8
30°-40°	3486.9	24.1
40°-50°	1964.9	13.6
50°-60°	1046.9	7.2
60°-70°	418.4	2.9
70°-80°	55.7	0.4
80°-90°	13.1	0.1
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°	7504.0	51.8
0°-40°	10990.9	75.9
0°-60°	14002.7	96.6
0°-90°	14490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14490.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10133	10133	10133	10133	10133	
5°	10042	10033	10070	9991	10065	947
15°	9435	9545	9511	9393	9590	2662
25°	8546	8626	8579	8446	8586	3879
35°	5773	5690	5644	5565	5361	3582
45°	2413	2544	2476	2360	2420	1982
55°	1174	1178	1153	1126	1143	1070
65°	452	430	399	388	404	447
75°	36	45	44	43	36	53
85°	2	11	5	15	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°	10132.6	10132.6	10132.6	10132.6	10132.6	10132.6	10132.6	10132.6	10132.6
2.5°	10125.5	10104.1	10088.1	10118.4	10145.1	10072.0	10077.4	10109.5	10120.1
5°	10041.8	10022.2	10032.9	10057.8	10070.3	9978.5	9991.0	10045.3	10064.9
7.5°	9885.0	9900.1	9938.4	9970.5	9933.1	9825.3	9843.1	9936.7	9975.0
10°	9714.9	9750.5	9830.7	9868.1	9804.8	9666.8	9687.3	9812.9	9873.4
12.5°	9579.5	9618.7	9702.4	9730.9	9674.8	9526.0	9547.4	9677.5	9749.6
15°	9435.2	9470.8	9544.7	9567.9	9510.9	9373.7	9393.3	9518.0	9590.2
17.5°	9272.2	9303.4	9369.3	9390.7	9340.8	9195.6	9226.8	9342.6	9405.8
20°	9100.3	9122.6	9168.9	9181.3	9133.2	9023.7	9037.9	9137.7	9178.7
22.5°	8866.0	8894.5	8937.3	8950.7	8906.1	8785.9	8799.2	8897.2	8941.7
25°	8546.3	8588.1	8626.4	8643.4	8579.2	8419.8	8446.5	8530.2	8586.4
27.5°	8050.2	8084.0	8151.7	8153.5	8065.3	7899.6	7921.9	8029.7	8043.9
30°	7412.4	7443.6	7503.3	7489.9	7405.3	7208.4	7226.3	7331.4	7355.4
32.5°	6631.3	6642.8	6658.9	6654.4	6551.1	6458.5	6422.0	6434.4	6443.3
35°	5772.6	5793.1	5689.8	5633.7	5643.5	5651.5	5565.1	5436.8	5361.1
37.5°	4940.7	4842.7	4715.4	4671.7	4752.8	4779.5	4701.1	4509.6	4439.3
40°	4036.7	3949.4	3848.7	3856.7	3855.0	3873.7	3774.8	3704.4	3680.4
42.5°	3106.8	3107.7	3173.6	3128.1	3119.2	2989.2	2950.9	2990.1	3032.8
45°	2412.9	2493.1	2543.8	2530.5	2476.1	2359.5	2359.5	2428.1	2420.0
47.5°	1986.3	2014.8	2053.1	2050.4	2011.2	1925.7	1939.9	1987.2	2011.2
50°	1679.0	1691.4	1709.3	1694.1	1670.1	1616.6	1615.7	1648.7	1662.9
52.5°	1404.6	1411.8	1407.3	1399.3	1385.9	1357.4	1348.5	1376.1	1379.7
55°	1173.9	1187.3	1177.5	1155.2	1152.6	1126.7	1125.8	1148.1	1142.8
57.5°	978.0	964.6	951.3	932.6	929.9	921.9	930.8	934.3	929.0
60°	814.1	815.0	789.2	771.3	769.6	758.0	770.5	780.3	780.3
62.5°	655.6	652.0	636.0	609.2	613.7	609.2	614.6	616.4	608.3
65°	451.6	452.5	430.2	398.1	399.0	395.5	387.5	399.9	403.5
67.5°	240.5	238.7	221.8	210.2	205.8	207.5	216.4	219.1	209.3
70°	130.9	126.5	130.0	117.6	120.2	115.8	120.2	127.4	124.7
72.5°	66.8	71.3	64.1	58.8	65.9	65.0	75.7	69.5	62.3
75°	35.6	38.3	45.4	41.9	43.6	41.9	42.8	40.1	35.6
77.5°	25.8	28.5	33.0	32.1	31.2	29.4	33.0	36.5	29.4
80°	15.1	18.7	20.5	24.0	21.4	24.0	27.6	22.3	17.8
82.5°	9.8	15.1	15.1	16.0	23.2	15.1	24.9	22.3	17.8
85°	1.8	2.7	10.7	6.2	5.3	16.0	15.1	11.6	3.6
87.5°	0.0	6.2	14.3	7.1	11.6	10.7	15.1	16.0	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)