

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: P247793

Luminaire Tested: **LSR8B150D010 EC8B150950 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247793  
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 EC8B150950 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15796.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 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

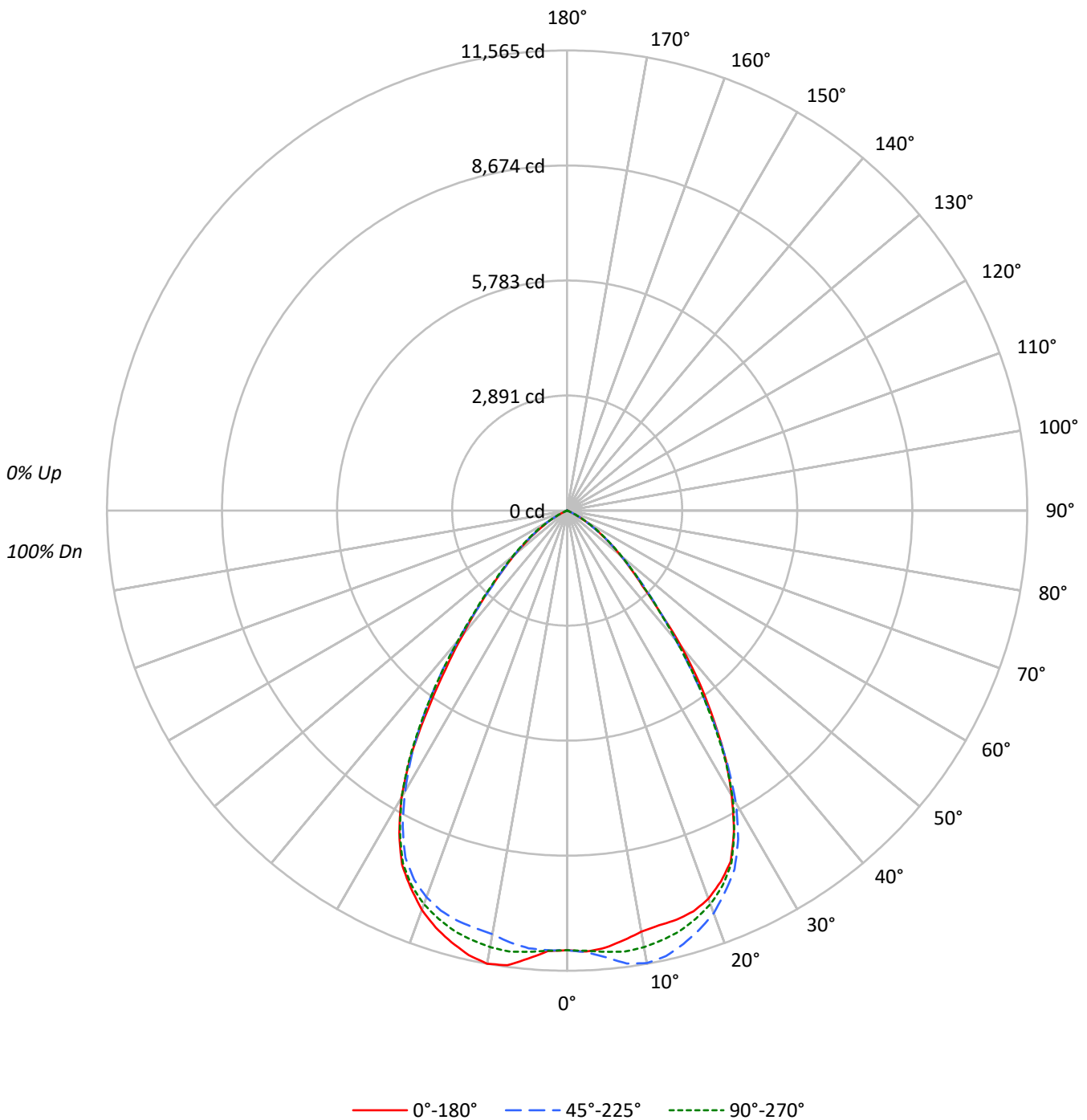
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	340667	340667	340667
5°	341371	344597	349905
10°	336454	348841	362123
15°	339851	349211	358543
20°	340712	345463	350336
25°	331048	332460	334219
30°	294435	296145	296404
35°	241823	236613	229464
40°	179259	172130	164482
45°	116545	119397	115538
50°	84144	85603	81933
55°	56073	57708	52401
60°	31453	33951	29745
65°	9894	12316	10361
70°	2579	2993	2407
75°	1644	1203	1978
80°	320	977	0
85°	3573	991	1309



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1064.6	6.7
10°-20°	3083.4	19.5
20°-30°	4422.7	28.0
30°-40°	3902.7	24.7
40°-50°	2160.9	13.7
50°-60°	952.2	6.0
60°-70°	192.4	1.2
70°-80°	14.4	0.1
80°-90°	2.6	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°	8570.7	54.3
0°-40°	12473.4	79.0
0°-60°	15586.5	98.7
0°-90°	15796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15796.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11048	11048	11048	11048	11048	
5°	11028	11271	11132	11042	11304	###
15°	10646	11279	10939	10671	11231	3003
25°	9730	9948	9771	9625	9823	4395
35°	6424	6332	6286	6290	6096	3985
45°	2672	2786	2738	2636	2649	2177
55°	1043	1038	1073	1018	975	956
65°	136	146	169	153	142	187
75°	14	14	10	11	17	13
85°	10	6	3	8	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°	11047.6	11047.6	11047.6	11047.6	11047.6	11047.6	11047.6	11047.6	11047.6
2.5°	11093.7	11047.6	11108.5	11070.7	11073.4	11016.3	11061.5	11104.8	11080.8
5°	11028.3	11070.7	11270.8	11265.3	11132.5	10960.0	11042.1	11239.4	11304.0
7.5°	10892.7	11045.8	11480.1	11519.8	11178.6	10815.2	10949.0	11360.2	11524.4
10°	10745.2	10965.6	11549.3	11626.7	11140.8	10662.2	10813.4	11331.7	11565.0
12.5°	10674.1	10887.2	11469.1	11543.8	11054.1	10588.4	10741.5	11222.8	11439.5
15°	10645.6	10806.0	11279.1	11347.3	10938.8	10546.9	10671.4	11065.1	11231.1
17.5°	10558.9	10669.5	11043.9	11087.3	10756.2	10445.4	10543.2	10844.7	10989.5
20°	10382.7	10456.5	10771.0	10794.0	10527.5	10263.8	10339.4	10577.3	10676.0
22.5°	10092.3	10141.1	10373.5	10381.8	10207.5	9978.8	10041.5	10227.8	10264.7
25°	9729.8	9734.5	9948.4	9908.7	9771.3	9559.2	9624.7	9784.2	9823.0
27.5°	9077.9	9093.5	9310.3	9257.7	9095.4	8911.0	8951.5	9097.2	9136.0
30°	8269.1	8356.7	8482.1	8456.3	8317.1	8131.7	8140.0	8283.0	8324.4
32.5°	7418.9	7393.1	7457.6	7438.2	7366.3	7219.7	7268.6	7305.4	7315.6
35°	6423.9	6402.6	6331.6	6242.2	6285.5	6342.7	6290.1	6209.0	6095.6
37.5°	5467.6	5348.6	5210.3	5117.1	5271.1	5331.1	5279.4	5103.3	5012.0
40°	4453.2	4327.8	4253.1	4230.0	4276.1	4320.4	4262.3	4176.5	4086.1
42.5°	3434.2	3433.2	3451.7	3447.1	3415.7	3352.1	3306.0	3342.9	3328.1
45°	2672.5	2714.0	2785.9	2797.9	2737.9	2644.8	2635.6	2670.6	2649.4
47.5°	2175.4	2190.2	2216.0	2252.9	2218.7	2171.7	2147.7	2158.8	2139.4
50°	1754.0	1757.7	1769.6	1797.3	1784.4	1752.1	1729.1	1715.2	1707.9
52.5°	1377.7	1369.4	1378.6	1387.9	1405.4	1384.2	1364.8	1335.3	1312.3
55°	1043.0	1036.5	1038.4	1045.7	1073.4	1049.4	1018.1	998.7	974.7
57.5°	757.1	735.9	740.5	765.4	791.2	781.1	753.4	722.1	692.6
60°	510.0	505.4	504.4	531.2	550.5	546.8	515.5	492.4	482.3
62.5°	301.6	298.8	306.2	318.1	341.2	324.6	303.4	291.4	287.7
65°	135.6	142.0	145.7	154.9	168.8	165.1	153.1	140.2	142.0
67.5°	59.0	45.2	50.7	57.2	53.5	56.3	49.8	52.6	50.7
70°	28.6	30.4	28.6	36.0	33.2	35.0	28.6	34.1	26.7
72.5°	20.3	17.5	22.1	25.8	22.1	25.8	23.1	17.5	13.8
75°	13.8	8.3	13.8	8.3	10.1	14.8	11.1	14.8	16.6
77.5°	1.8	6.5	2.8	3.7	1.8	4.6	4.6	2.8	8.3
80°	1.8	2.8	1.8	3.7	5.5	0.9	3.7	8.3	0.0
82.5°	6.5	0.0	0.9	0.0	0.9	1.8	0.0	1.8	0.0
85°	10.1	2.8	5.5	12.9	2.8	5.5	8.3	3.7	3.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	2.8	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)