

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: P250187

Luminaire Tested: **LSR8B150D010 EC8B150950 8LBM0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150950 8LBM0WH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14914.0 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

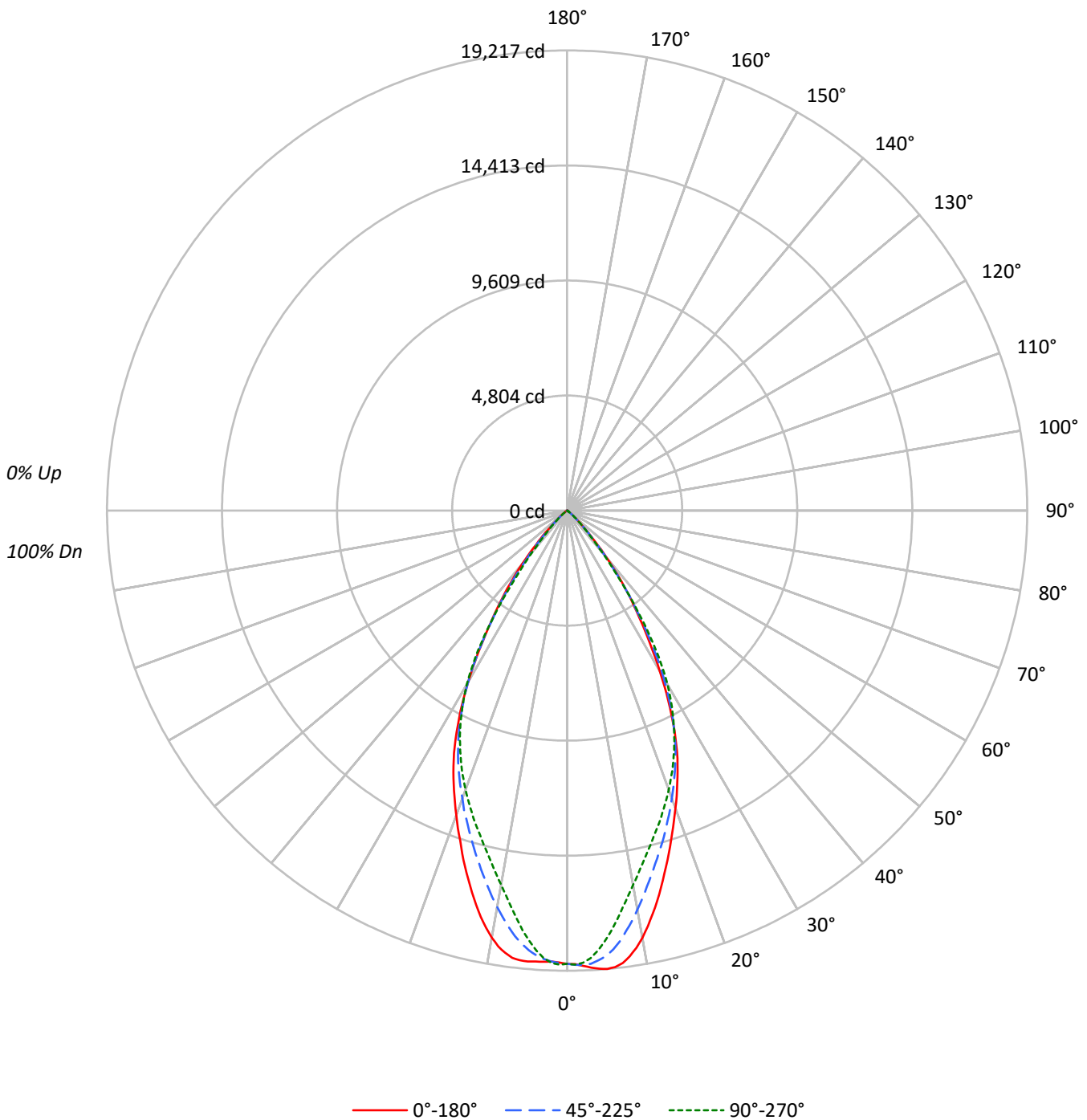
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250187

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBM0WH

### Luminous Intensity Polar Plot





TEST NUMBER: P250187

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBM0WH

**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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94					94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87					87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76					76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71					71			
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66					66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62					62			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58					58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55					55			
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52					52			

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

	0°	90°	180°
0°	583645	583645	583645
5°	594848	558811	585159
10°	567145	497116	566998
15°	500809	448364	509330
20°	434002	406969	444270
25°	366691	360431	380155
30°	275603	298381	294446
35°	184490	195061	200083
40°	103364	88728	118552
45°	41542	36523	49370
50°	14349	13907	16997
55°	3957	4704	4457
60°	2270	2843	2553
65°	2014	1678	1343
70°	0	1244	829
75°	0	0	0
80°	0	0	817
85°	0	0	0



TEST NUMBER: P250187

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBM0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1718.2	11.5
10°-20°	4155.8	27.9
20°-30°	4870.8	32.7
30°-40°	3204.7	21.5
40°-50°	836.3	5.6
50°-60°	102.9	0.7
60°-70°	21.3	0.1
70°-80°	4.0	0.0
80°-90°	0.1	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°	10744.7	72.0
0°-40°	13949.4	93.5
0°-60°	14888.6	99.8
0°-90°	14914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14914.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	18927	18927	18927	18927	18927	
5°	19217	18670	18053	18426	18904	###
15°	15688	14799	14045	14799	15954	4373
25°	10777	10672	10593	10773	11173	4859
35°	4901	5011	5182	5232	5315	3069
45°	953	897	838	971	1132	854
55°	74	78	88	88	83	98
65°	28	23	23	18	18	19
75°	0	5	0	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P250187

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBM0WH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	18927.2	18927.2	18927.2	18927.2	18927.2	18927.2	18927.2	18927.2	18927.2
1°	18940.9	18968.6	18977.8	19005.5	18964.0	18936.4	18899.6	18871.9	18876.5
2°	19023.8	19037.7	18987.0	18968.6	18895.0	18871.9	18844.3	18839.7	18844.3
3°	19111.3	19083.6	18950.2	18826.0	18715.5	18701.7	18752.3	18826.0	18867.3
4°	19180.3	19106.7	18826.0	18595.8	18421.0	18407.2	18609.7	18798.3	18876.5
5°	19217.1	19083.6	18669.5	18282.9	18052.9	18140.2	18425.6	18761.5	18904.1
6°	19166.5	18968.6	18430.2	17914.8	17652.5	17767.5	18186.3	18674.1	18885.8
7°	19037.7	18784.5	18121.9	17514.4	17192.3	17371.8	17905.6	18526.8	18816.7
8°	18798.3	18494.6	17730.7	17049.6	16732.1	16934.5	17560.5	18315.1	18651.1
9°	18485.4	18149.5	17344.2	16626.3	16285.8	16525.0	17201.5	18034.4	18421.0
10°	18112.7	17753.7	16916.2	16184.5	15876.2	16101.7	16815.0	17707.6	18108.0
11°	17675.4	17330.3	16488.2	15770.4	15475.8	15696.8	16428.4	17316.6	17749.1
12°	17201.5	16884.0	16051.1	15370.0	15093.9	15305.6	16014.3	16911.6	17339.6
13°	16727.5	16410.0	15627.7	14983.4	14730.3	14932.8	15609.3	16469.9	16897.7
14°	16216.7	15926.8	15204.4	14615.3	14385.2	14578.4	15195.1	16023.4	16428.4
15°	15687.5	15457.4	14799.3	14260.9	14044.7	14228.7	14799.3	15563.2	15954.4
16°	15190.5	14978.8	14408.2	13911.2	13731.8	13879.0	14399.1	15103.1	15475.8
17°	14684.3	14491.1	14017.0	13566.1	13405.0	13547.7	13989.4	14638.3	14974.2
18°	14178.1	14017.0	13589.1	13202.6	13059.9	13188.7	13584.5	14168.9	14472.6
19°	13708.7	13561.4	13198.0	12871.2	12742.4	12857.4	13230.2	13718.0	14021.6
20°	13225.6	13105.9	12788.3	12521.5	12401.8	12507.6	12797.6	13271.6	13538.5
21°	12760.8	12654.9	12378.8	12153.3	12056.7	12144.2	12411.0	12839.0	13073.7
22°	12277.6	12217.8	11969.3	11780.6	11716.2	11771.4	12015.2	12383.4	12604.4
23°	11803.6	11748.4	11559.7	11403.3	11348.0	11403.3	11619.6	11950.8	12148.8
24°	11325.0	11265.2	11127.2	11025.8	10979.9	11025.8	11209.9	11490.6	11679.4
25°	10777.4	10768.2	10671.6	10616.3	10593.4	10643.9	10772.8	11016.7	11173.1
26°	10252.7	10225.2	10197.6	10188.3	10193.0	10220.5	10326.4	10510.5	10634.8
27°	9608.6	9650.0	9691.3	9746.6	9765.0	9788.0	9838.6	9972.0	10064.1
28°	8991.9	9070.1	9171.4	9281.8	9332.5	9332.5	9337.0	9410.6	9488.9
29°	8379.9	8462.7	8623.8	8789.4	8858.4	8849.2	8812.4	8844.6	8890.6
30°	7740.2	7846.1	8062.4	8278.7	8379.9	8343.1	8274.1	8241.8	8269.4
31°	7114.4	7220.2	7459.5	7694.2	7827.6	7786.3	7666.6	7643.6	7657.4
32°	6516.2	6622.0	6842.8	7091.3	7243.2	7188.0	7063.7	7026.9	7031.5
33°	5936.3	6019.2	6221.6	6451.8	6576.0	6562.1	6460.9	6414.9	6419.5
34°	5388.7	5457.7	5609.5	5784.5	5904.1	5899.5	5825.8	5830.4	5844.3
35°	4900.9	4937.8	5011.3	5108.0	5181.7	5223.0	5232.2	5269.0	5315.1
37.5°	3704.5	3718.2	3630.8	3534.1	3515.8	3635.5	3842.5	4022.0	4091.0
40°	2567.8	2535.6	2425.1	2254.9	2204.2	2337.8	2600.0	2853.1	2945.1
42.5°	1596.9	1583.0	1514.0	1385.2	1339.1	1417.4	1615.2	1808.6	1900.5
45°	952.6	934.1	897.3	846.7	837.5	869.7	970.9	1081.4	1132.1
47.5°	547.6	543.1	520.0	501.6	497.0	520.0	566.0	630.4	644.3
50°	299.1	294.6	289.9	289.9	289.9	303.7	326.8	345.1	354.3
52.5°	147.3	151.9	147.3	151.9	156.5	165.6	161.0	179.5	179.5
55°	73.6	69.0	78.3	87.5	87.5	87.5	87.5	87.5	82.9
57.5°	55.2	59.8	50.7	55.2	50.7	50.7	46.1	50.7	55.2



TEST NUMBER: P250187

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBM0WH

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	36.8	32.2	36.8	41.4	46.1	41.4	32.2	36.8	41.4
62.5°	18.4	18.4	18.4	27.6	41.4	32.2	27.6	23.0	23.0
65°	27.6	18.4	23.0	27.6	23.0	23.0	18.4	23.0	18.4
67.5°	13.8	23.0	13.8	9.2	13.8	18.4	13.8	9.2	9.2
70°	0.0	4.6	4.6	13.8	13.8	13.8	13.8	9.2	9.2
72.5°	4.6	4.6	4.6	9.2	4.6	9.2	4.6	4.6	9.2
75°	0.0	0.0	4.6	4.6	0.0	4.6	0.0	0.0	0.0
77.5°	4.6	0.0	4.6	4.6	0.0	0.0	0.0	4.6	0.0
80°	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	4.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)