

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: P248081

Luminaire Tested: **LSR8B150D010 EC8B150950 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248081  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150950 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15967.0 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

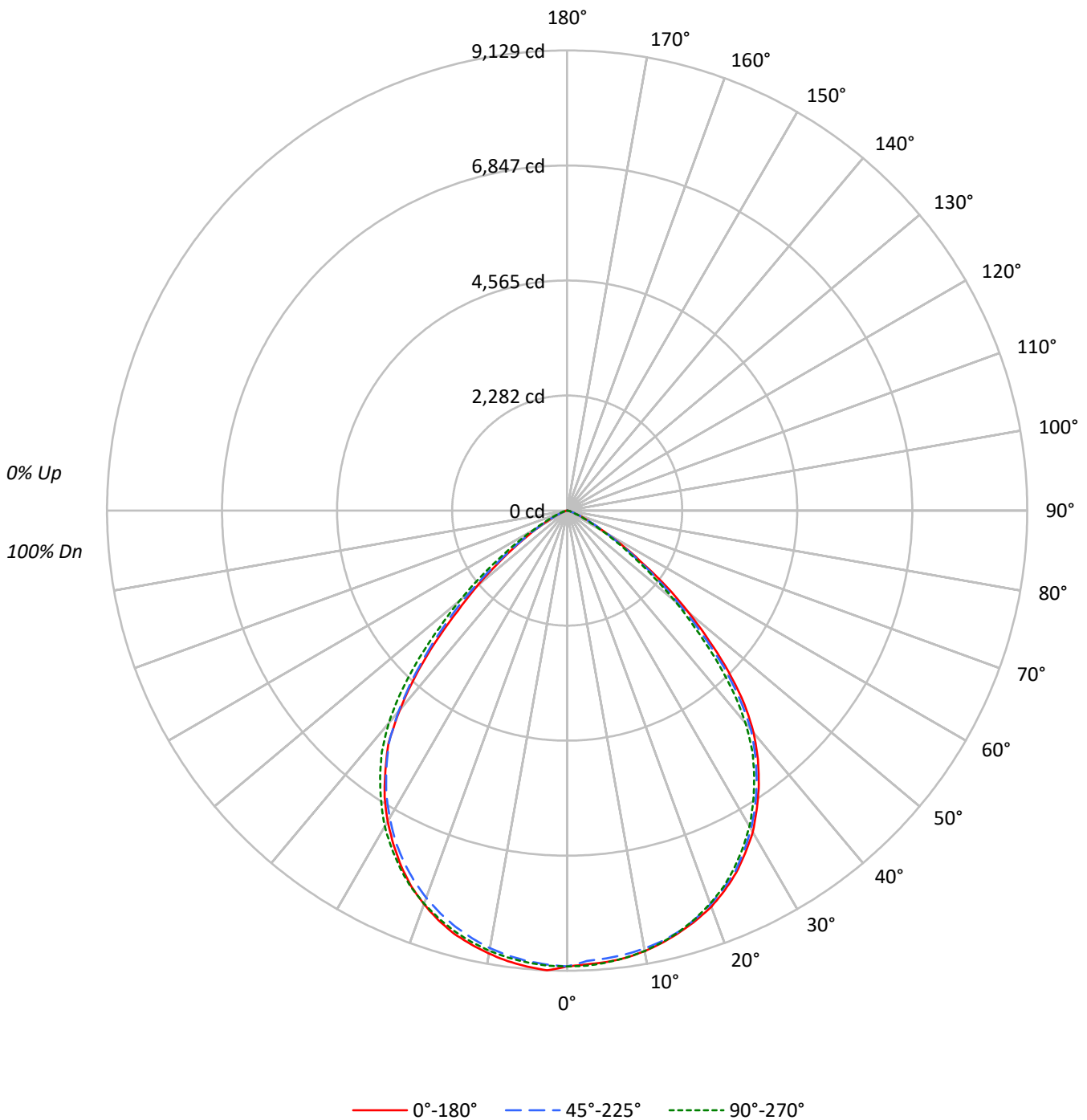
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

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

	0°	90°	180°
0°	278868	278868	278868
5°	278305	278593	281076
10°	277916	277741	279447
15°	276313	275811	277312
20°	274464	272285	272708
25°	269828	266596	264997
30°	262251	257622	253548
35°	249555	243550	236782
40°	231742	221791	208097
45°	197532	181806	161419
50°	150409	133998	111791
55°	99152	86411	69605
60°	55678	48968	38447
65°	29201	26107	18570
70°	13966	12307	7736
75°	7911	8566	5385
80°	6055	5896	3108
85°	3573	2937	1309



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	854.0	5.3
10°-20°	2432.5	15.2
20°-30°	3593.7	22.5
30°-40°	4004.8	25.1
40°-50°	3162.7	19.8
50°-60°	1460.5	9.1
60°-70°	375.2	2.3
70°-80°	72.3	0.5
80°-90°	11.3	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°	6880.3	43.1
0°-40°	10885.0	68.2
0°-60°	15508.2	97.1
0°-90°	15967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15967.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9044	9044	9044	9044	9044	
5°	8991	8919	9000	8972	9080	855
15°	8655	8635	8640	8549	8687	2443
25°	7930	7894	7836	7679	7788	3644
35°	6629	6556	6470	6254	6290	4128
45°	4530	4398	4169	3836	3702	3457
55°	1844	1738	1607	1376	1295	1709
65°	400	406	358	274	254	439
75°	66	70	72	54	45	80
85°	10	10	8	5	4	14
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°	9043.5	9043.5	9043.5	9043.5	9043.5	9043.5	9043.5	9043.5	9043.5
2.5°	9009.4	9051.8	8943.9	9031.5	9035.2	8973.4	9015.8	9066.6	9129.3
5°	8990.9	9034.3	8919.0	9000.2	9000.2	8932.9	8972.5	9016.8	9080.4
7.5°	8947.6	8994.6	8881.2	8956.8	8944.8	8871.1	8906.1	8949.5	9017.7
10°	8875.7	8933.8	8823.1	8895.0	8870.1	8785.3	8815.7	8860.9	8924.6
12.5°	8777.0	8846.2	8742.9	8805.6	8765.9	8669.1	8694.0	8752.1	8814.8
15°	8655.3	8726.3	8635.0	8689.4	8639.6	8531.7	8549.2	8608.3	8686.6
17.5°	8519.7	8588.9	8486.5	8545.6	8479.2	8367.6	8374.0	8442.3	8513.3
20°	8363.9	8421.1	8315.9	8372.2	8297.5	8174.8	8175.8	8236.6	8310.4
22.5°	8159.2	8219.1	8110.3	8157.3	8089.1	7958.1	7942.5	8001.5	8072.5
25°	7930.5	7993.2	7893.6	7910.2	7835.5	7699.9	7678.7	7722.1	7788.5
27.5°	7656.6	7718.4	7605.9	7627.1	7545.0	7415.0	7386.4	7409.5	7462.0
30°	7365.2	7403.9	7297.0	7314.5	7235.2	7081.2	7037.8	7069.2	7120.8
32.5°	7006.5	7034.1	6942.9	6952.1	6866.3	6733.5	6676.4	6685.6	6738.1
35°	6629.3	6644.1	6555.6	6557.4	6469.8	6335.2	6254.0	6249.4	6290.0
37.5°	6213.4	6223.6	6134.1	6129.5	6039.2	5893.5	5808.6	5793.9	5818.8
40°	5757.0	5770.8	5677.7	5648.2	5509.8	5343.9	5205.5	5179.7	5169.6
42.5°	5203.7	5165.9	5068.1	5018.3	4879.1	4666.1	4537.9	4499.2	4466.0
45°	4529.6	4499.2	4397.7	4285.2	4169.0	4008.6	3836.1	3730.1	3701.5
47.5°	3822.3	3786.3	3640.6	3542.0	3427.6	3353.9	3168.5	3005.3	2934.3
50°	3135.3	3095.7	2933.4	2860.5	2793.2	2683.5	2503.6	2357.0	2330.3
52.5°	2499.9	2440.0	2300.8	2225.1	2165.2	2043.5	1881.2	1796.3	1751.2
55°	1844.3	1835.1	1738.3	1683.8	1607.3	1510.5	1375.8	1312.2	1294.7
57.5°	1343.6	1309.5	1272.6	1226.5	1160.1	1038.3	955.3	907.4	903.7
60°	902.8	913.8	913.8	863.1	794.0	714.7	648.3	622.5	623.4
62.5°	605.9	613.2	611.4	589.3	535.8	471.2	427.9	409.4	410.4
65°	400.2	398.4	405.7	390.1	357.8	312.6	273.9	263.7	254.5
67.5°	254.5	257.3	254.5	246.2	226.8	194.6	168.8	153.1	148.5
70°	154.9	151.2	152.2	150.3	136.5	120.8	102.4	89.4	85.8
72.5°	93.1	95.9	96.8	99.6	97.7	86.7	73.8	64.6	62.7
75°	66.4	67.3	70.1	72.8	71.9	64.6	54.4	48.0	45.2
77.5°	49.8	49.8	51.6	55.3	52.6	46.1	38.7	33.2	31.4
80°	34.1	35.0	36.0	36.0	33.2	29.5	23.1	19.4	17.5
82.5°	20.3	21.2	20.3	20.3	18.4	14.8	11.1	10.1	9.2
85°	10.1	10.1	10.1	10.1	8.3	6.5	4.6	3.7	3.7
87.5°	4.6	4.6	4.6	3.7	2.8	1.8	1.8	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)