

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: P247563

Luminaire Tested: **LSR8B90D010 EC8B90950 8LBSOGPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247563  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90950 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8681.0 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

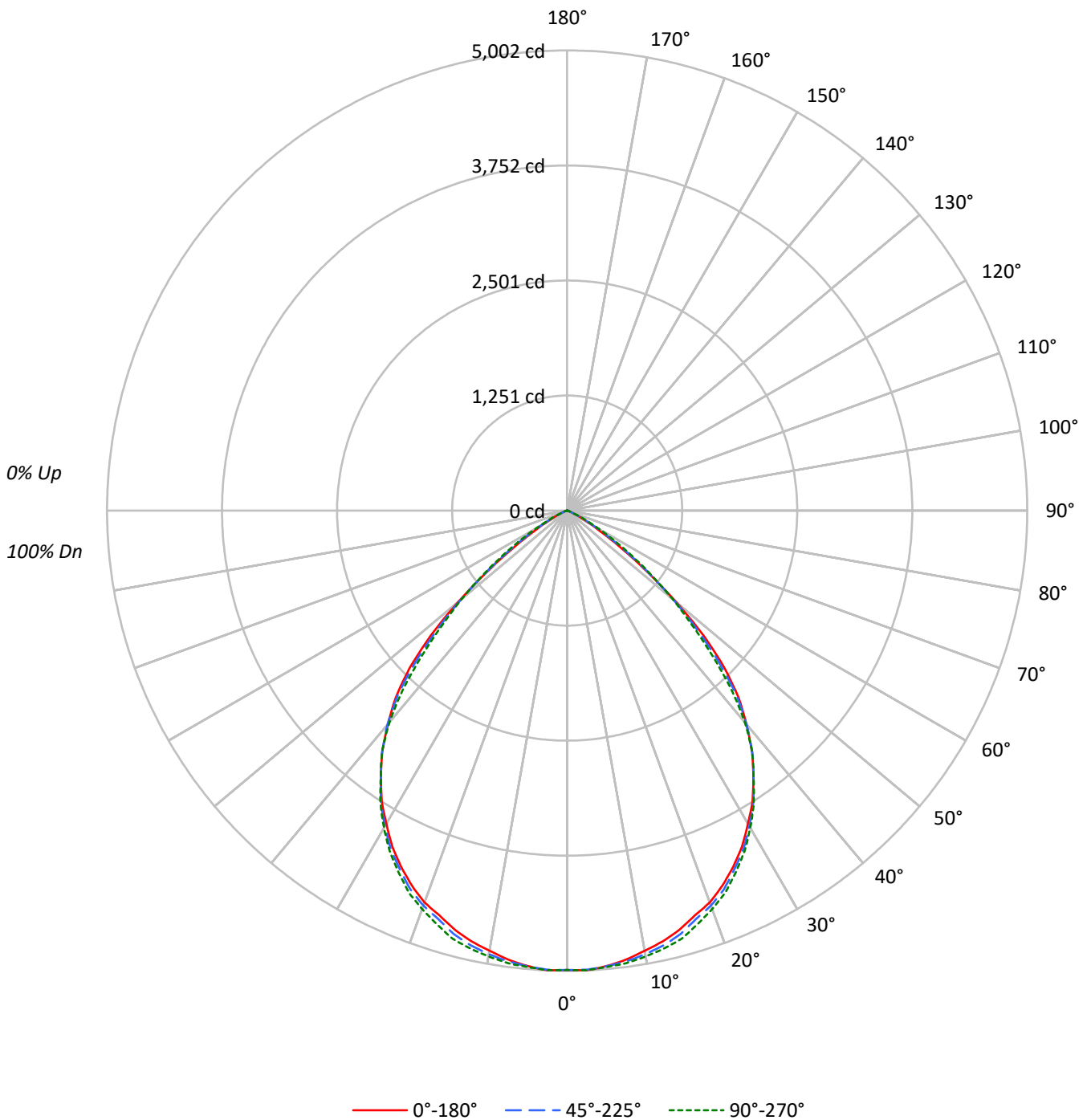
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	153997	153997	153997
5°	153814	153876	154102
10°	152145	153316	154096
15°	150576	152134	153791
20°	148745	149940	151233
25°	145320	146379	147580
30°	139984	141056	141797
35°	132824	132940	132982
40°	122046	122255	121003
45°	105586	101871	97340
50°	74046	72549	71604
55°	40208	43558	46402
60°	17743	21653	24533
65°	6822	8566	10230
70°	3462	3092	4030
75°	1108	2109	1859
80°	923	178	1101
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.4	5.4
10°-20°	1341.6	15.5
20°-30°	1978.5	22.8
30°-40°	2202.1	25.4
40°-50°	1772.3	20.4
50°-60°	753.6	8.7
60°-70°	141.3	1.6
70°-80°	17.1	0.2
80°-90°	2.1	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°	3792.4	43.7
0°-40°	5994.6	69.1
0°-60°	8520.4	98.2
0°-90°	8681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8681.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4994	4994	4994	4994	4994	
5°	4969	4970	4971	4980	4978	471
15°	4717	4743	4766	4802	4817	1329
25°	4271	4287	4302	4327	4338	1963
35°	3528	3529	3532	3533	3533	2197
45°	2421	2401	2336	2265	2232	1820
55°	748	764	810	842	863	712
65°	94	104	117	126	140	121
75°	9	11	18	17	16	15
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4994.0	4994.0	4994.0	4994.0	4994.0
2.5°	5002.3	5005.4	4995.0	4997.1	5000.2
5°	4969.1	4970.1	4971.1	4979.5	4978.4
7.5°	4922.3	4929.6	4942.1	4957.6	4961.8
10°	4859.0	4877.7	4896.4	4915.1	4921.3
12.5°	4796.6	4808.1	4841.3	4860.0	4875.6
15°	4716.7	4742.6	4765.5	4801.8	4817.4
17.5°	4614.9	4633.6	4655.4	4691.7	4713.5
20°	4532.8	4538.0	4569.2	4601.4	4608.6
22.5°	4411.3	4422.7	4454.9	4476.7	4495.4
25°	4271.1	4286.6	4302.2	4327.2	4337.5
27.5°	4117.3	4126.7	4148.5	4166.2	4175.5
30°	3931.4	3952.2	3961.5	3969.9	3982.3
32.5°	3750.7	3756.9	3765.2	3770.4	3776.7
35°	3528.4	3529.4	3531.5	3532.6	3532.6
37.5°	3300.9	3308.2	3306.1	3299.9	3303.0
40°	3031.9	3044.4	3037.1	3018.4	3006.0
42.5°	2760.8	2754.6	2729.7	2673.6	2647.6
45°	2421.2	2401.4	2336.0	2265.4	2232.1
47.5°	2014.0	1970.4	1915.3	1860.3	1838.5
50°	1543.5	1537.3	1512.3	1490.5	1492.6
52.5°	1106.2	1121.8	1127.0	1147.7	1158.1
55°	747.9	764.5	810.2	842.4	863.1
57.5°	454.9	487.1	536.0	588.9	615.9
60°	287.7	306.4	351.1	385.4	397.8
62.5°	179.7	180.7	202.5	229.5	241.0
65°	93.5	103.9	117.4	125.7	140.2
67.5°	58.2	58.2	57.1	69.6	77.9
70°	38.4	33.2	34.3	41.5	44.7
72.5°	13.5	22.9	20.8	20.8	14.5
75°	9.3	11.4	17.7	16.6	15.6
77.5°	12.5	11.4	8.3	7.3	14.5
80°	5.2	4.2	1.0	6.2	6.2
82.5°	5.2	2.1	6.2	8.3	5.2
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)