

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: P247371

Luminaire Tested: **LSR8B90D010 EC8B90950 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247371  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90950 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: 9312.0 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

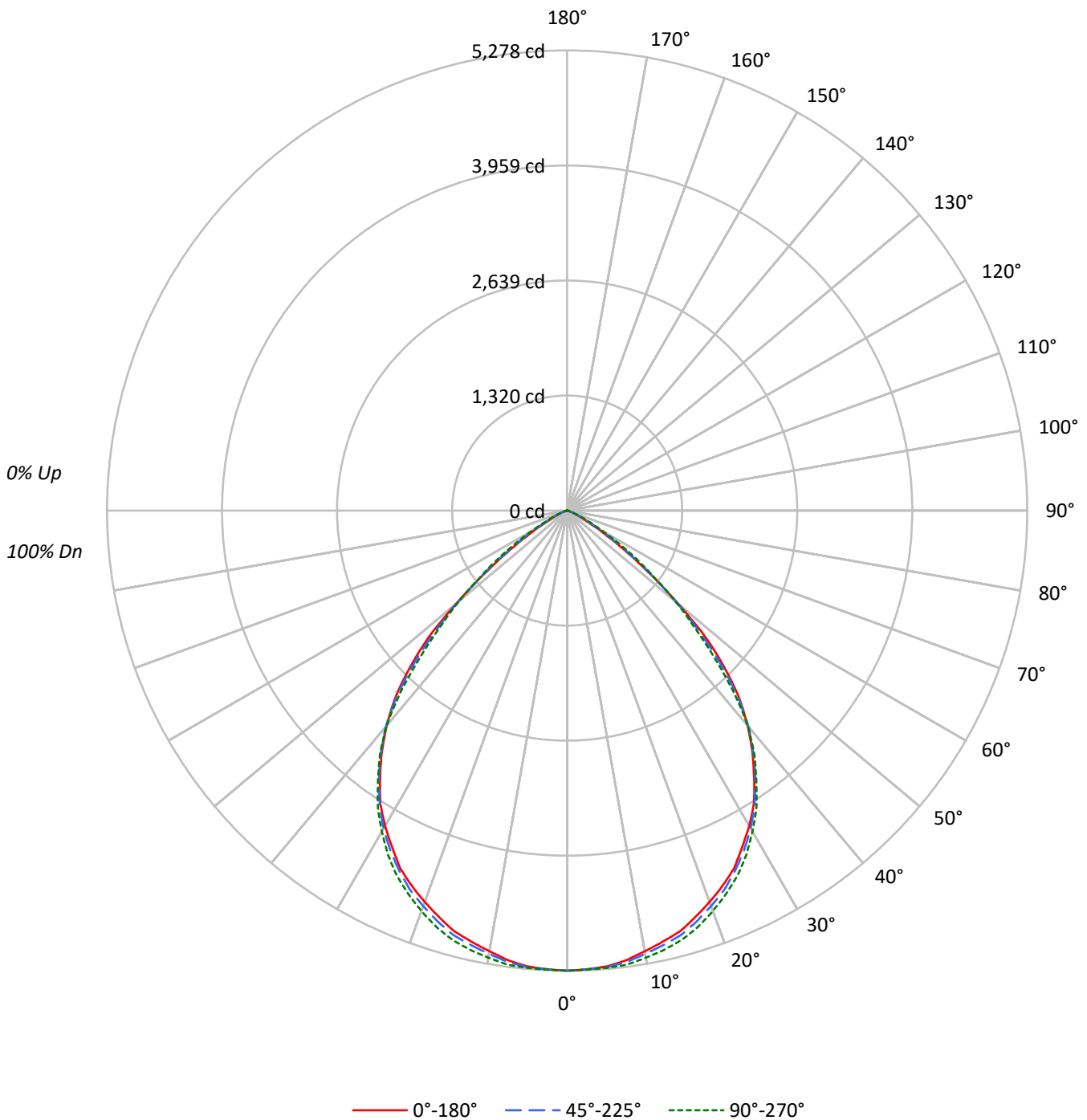
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	102	100	98	99	97	95	95	94	92	91					91			
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58					58			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	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	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36					36			

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

	0°	45°	90°
0°	162760	162760	162760
5°	162416	162673	162964
10°	160684	161629	163060
15°	159550	160942	162666
20°	156778	158413	160355
25°	154071	155061	157215
30°	148740	149922	151329
35°	140752	141610	142355
40°	129606	130230	129895
45°	111735	108792	104444
50°	79769	78575	77625
55°	45789	48520	52541
60°	21715	25428	29399
65°	10230	12353	14170
70°	4778	5337	6086
75°	2228	3217	3717
80°	1847	1651	2575
85°	743	1840	1097



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	498.7	5.4
10°-20°	1419.1	15.2
20°-30°	2096.5	22.5
30°-40°	2342.7	25.2
40°-50°	1891.4	20.3
50°-60°	841.3	9.0
60°-70°	189.5	2.0
70°-80°	29.3	0.3
80°-90°	3.5	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°	4014.4	43.1
0°-40°	6357.1	68.3
0°-60°	9089.8	97.6
0°-90°	9312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9312.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5278	5278	5278	5278	5278	
5°	5247	5246	5255	5256	5265	497
15°	4998	5001	5041	5079	5095	1406
25°	4528	4528	4557	4595	4621	2076
35°	3739	3737	3762	3766	3782	2331
45°	2562	2542	2495	2406	2395	1937
55°	852	864	902	949	977	801
65°	140	158	169	184	194	163
75°	19	26	27	26	31	24
85°	2	3	5	11	3	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5278.2	5278.2	5278.2	5278.2	5278.2
2.5°	5264.7	5261.6	5266.8	5263.6	5268.8
5°	5247.0	5246.0	5255.3	5256.4	5264.7
7.5°	5201.3	5202.4	5222.1	5236.6	5253.3
10°	5131.7	5135.9	5161.9	5194.1	5207.6
12.5°	5065.3	5070.5	5103.7	5148.4	5158.7
15°	4997.8	5000.9	5041.4	5078.8	5095.4
17.5°	4887.7	4908.4	4939.6	4982.2	5004.0
20°	4777.6	4792.1	4827.4	4874.2	4886.6
22.5°	4657.1	4672.7	4708.0	4746.4	4759.9
25°	4528.3	4528.3	4557.4	4594.8	4620.7
27.5°	4348.6	4370.4	4391.2	4424.5	4450.4
30°	4177.3	4185.6	4210.5	4237.5	4250.0
32.5°	3987.2	3988.2	3999.7	4029.8	4041.2
35°	3739.0	3736.9	3761.8	3766.0	3781.6
37.5°	3490.7	3501.1	3510.5	3525.0	3526.1
40°	3219.7	3224.9	3235.2	3219.7	3226.9
42.5°	2924.7	2917.4	2897.7	2851.0	2831.2
45°	2562.2	2542.5	2494.7	2406.4	2395.0
47.5°	2162.4	2113.6	2055.4	1990.0	1977.5
50°	1662.8	1667.0	1637.9	1616.1	1618.1
52.5°	1212.1	1226.6	1233.9	1254.6	1266.1
55°	851.7	864.1	902.5	949.3	977.3
57.5°	551.5	575.4	625.2	678.2	697.9
60°	352.1	367.7	412.3	450.8	476.7
62.5°	230.6	235.8	260.7	296.0	297.0
65°	140.2	157.9	169.3	183.8	194.2
67.5°	91.4	91.4	101.8	115.3	118.4
70°	53.0	54.0	59.2	64.4	67.5
72.5°	29.1	32.2	35.3	40.5	45.7
75°	18.7	26.0	27.0	26.0	31.2
77.5°	12.5	12.5	10.4	17.7	18.7
80°	10.4	7.3	9.3	13.5	14.5
82.5°	0.0	1.0	1.0	2.1	0.0
85°	2.1	3.1	5.2	11.4	3.1
87.5°	0.0	3.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)