

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: P247339

Luminaire Tested: **LSR8B90D010 EC8B90830 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247339
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 EC8B90830 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9711.0 lumens
Efficiency: N/A
Efficacy: 112.8 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

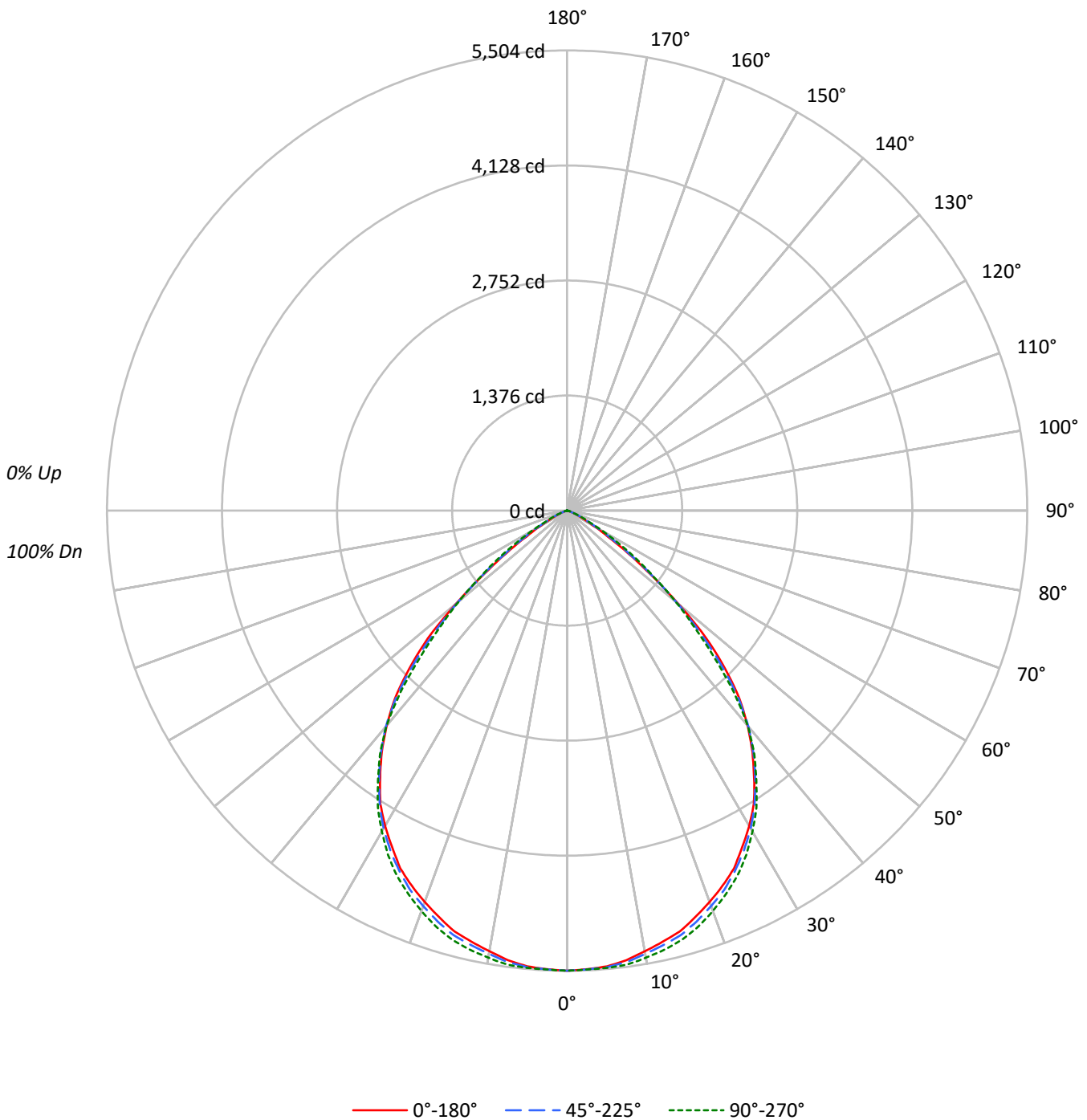
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	169732	169732	169732
5°	169375	169644	169947
10°	167569	168553	170046
15°	166385	167838	169635
20°	163496	165202	167227
25°	160672	161706	163952
30°	155114	156345	157812
35°	146782	147678	148454
40°	135157	135813	135463
45°	116524	113454	108918
50°	83190	81942	80954
55°	47746	50600	54794
60°	22646	26519	30657
65°	10667	12878	14775
70°	4977	5563	6347
75°	2323	3360	3872
80°	1918	1723	2699
85°	778	1911	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.1	5.4
10°-20°	1479.9	15.2
20°-30°	2186.4	22.5
30°-40°	2443.1	25.2
40°-50°	1972.4	20.3
50°-60°	877.3	9.0
60°-70°	197.6	2.0
70°-80°	30.5	0.3
80°-90°	3.6	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°	4186.4	43.1
0°-40°	6629.5	68.3
0°-60°	9479.2	97.6
0°-90°	9711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5504	5504	5504	5504	5504	
5°	5472	5471	5480	5482	5490	518
15°	5212	5215	5257	5296	5314	1466
25°	4722	4722	4753	4792	4819	2165
35°	3899	3897	3923	3927	3944	2430
45°	2672	2651	2602	2510	2498	2020
55°	888	901	941	990	1019	836
65°	146	165	176	192	202	170
75°	20	27	28	27	32	25
85°	2	3	5	12	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5504.3	5504.3	5504.3	5504.3	5504.3
2.5°	5490.3	5487.0	5492.4	5489.2	5494.6
5°	5471.8	5470.8	5480.5	5481.6	5490.3
7.5°	5424.2	5425.3	5445.9	5461.0	5478.3
10°	5351.6	5356.0	5383.0	5416.6	5430.7
12.5°	5282.3	5287.7	5322.4	5369.0	5379.8
15°	5211.9	5215.2	5257.4	5296.4	5313.7
17.5°	5097.1	5118.8	5151.2	5195.7	5218.4
20°	4982.3	4997.4	5034.3	5083.0	5096.0
22.5°	4856.6	4872.9	4909.7	4949.8	4963.9
25°	4722.3	4722.3	4752.7	4791.7	4818.7
27.5°	4535.0	4557.7	4579.4	4614.0	4641.1
30°	4356.3	4364.9	4390.9	4419.1	4432.1
32.5°	4158.0	4159.1	4171.0	4202.4	4214.4
35°	3899.2	3897.0	3923.0	3927.3	3943.6
37.5°	3640.3	3651.1	3660.9	3676.1	3677.1
40°	3357.6	3363.0	3373.9	3357.6	3365.2
42.5°	3050.0	3042.4	3021.9	2973.1	2952.5
45°	2672.0	2651.4	2601.6	2509.6	2497.6
47.5°	2255.0	2204.1	2143.5	2075.2	2062.2
50°	1734.1	1738.4	1708.1	1685.3	1687.5
52.5°	1264.0	1279.1	1286.7	1308.4	1320.3
55°	888.1	901.1	941.2	990.0	1019.2
57.5°	575.1	600.0	652.0	707.3	727.8
60°	367.2	383.4	430.0	470.1	497.1
62.5°	240.4	245.9	271.9	308.7	309.8
65°	146.2	164.6	176.5	191.7	202.5
67.5°	95.3	95.3	106.1	120.2	123.5
70°	55.2	56.3	61.7	67.2	70.4
72.5°	30.3	33.6	36.8	42.2	47.7
75°	19.5	27.1	28.2	27.1	32.5
77.5°	13.0	13.0	10.8	18.4	19.5
80°	10.8	7.6	9.7	14.1	15.2
82.5°	0.0	1.1	1.1	2.2	0.0
85°	2.2	3.2	5.4	11.9	3.2
87.5°	0.0	3.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)