

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: P247283

Luminaire Tested: **LSR8B90D010 EC8B90930 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90930 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7673.2 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

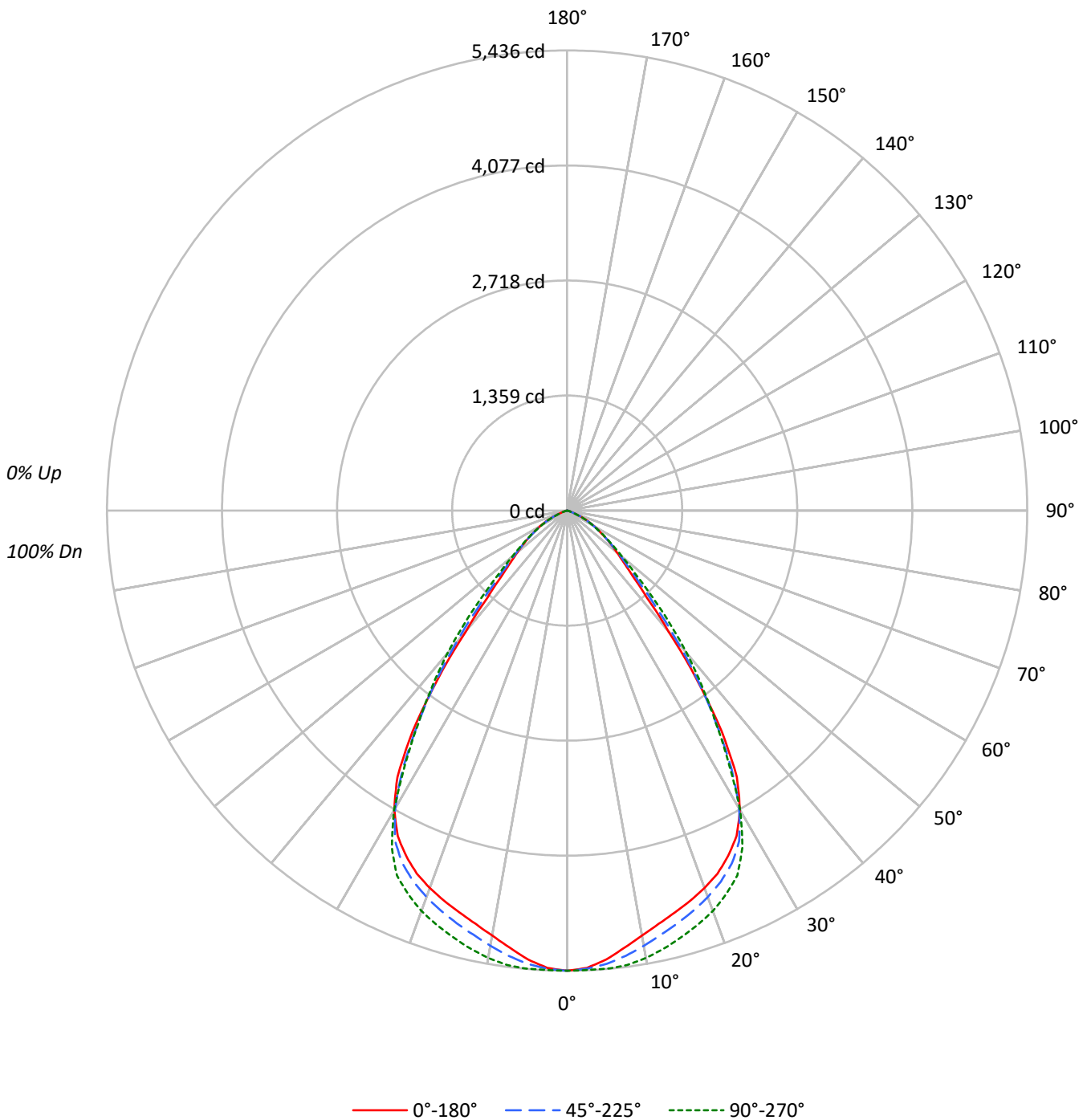
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.3	6.6
10°-20°	1427.4	18.6
20°-30°	2102.2	27.4
30°-40°	1912.0	24.9
40°-50°	989.8	12.9
50°-60°	495.9	6.5
60°-70°	201.9	2.6
70°-80°	32.2	0.4
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°	4037.9	52.6
0°-40°	5950.0	77.5
0°-60°	7435.6	96.9
0°-90°	7673.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7673.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5436	5436	5436	5436	5436	
5°	5322	5336	5373	5414	5433	501
15°	4915	4948	5045	5161	5217	1389
25°	4503	4533	4602	4707	4757	2061
35°	3183	3162	3070	3044	3063	1919
45°	1091	1129	1213	1307	1365	899
55°	539	538	538	548	557	490
65°	208	207	200	197	194	210
75°	28	27	25	23	23	35
85°	3	3	3	2	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5435.6	5435.6	5435.6	5435.6	5435.6
2.5°	5406.7	5409.5	5417.0	5425.3	5431.8
5°	5322.1	5336.1	5373.3	5414.2	5432.8
7.5°	5206.7	5237.4	5305.4	5381.6	5415.1
10°	5097.0	5132.4	5220.7	5323.1	5365.8
12.5°	5000.2	5034.6	5130.5	5244.9	5298.0
15°	4914.7	4948.2	5044.9	5161.2	5217.0
17.5°	4833.8	4864.5	4956.5	5072.9	5129.6
20°	4743.5	4770.5	4858.0	4970.5	5033.7
22.5°	4641.3	4661.7	4743.5	4850.6	4906.3
25°	4502.6	4533.3	4602.2	4707.3	4756.6
27.5°	4333.3	4353.0	4400.4	4464.5	4485.0
30°	4082.2	4081.3	4065.5	4065.5	4091.5
32.5°	3733.5	3688.8	3613.4	3567.9	3564.2
35°	3182.9	3162.3	3070.3	3044.3	3062.9
37.5°	2511.3	2525.3	2548.5	2585.7	2619.2
40°	1864.9	1900.2	2031.4	2148.5	2199.7
42.5°	1391.5	1437.0	1571.0	1699.3	1761.7
45°	1091.1	1129.2	1212.8	1306.7	1365.4
47.5°	902.2	921.7	966.4	1029.6	1059.3
50°	763.6	772.9	793.3	826.0	849.2
52.5°	648.3	644.6	655.7	677.1	685.5
55°	539.4	537.6	537.6	547.8	557.1
57.5°	447.4	444.6	439.0	443.7	446.5
60°	366.5	363.7	359.1	358.0	357.2
62.5°	294.8	290.2	280.9	279.0	279.0
65°	208.4	207.4	200.0	197.2	194.4
67.5°	129.3	125.6	119.1	113.4	112.5
70°	77.2	76.2	70.7	66.9	66.9
72.5°	46.5	44.6	41.8	40.0	39.0
75°	27.9	27.0	25.1	23.2	23.2
77.5°	16.7	15.8	14.9	13.9	13.9
80°	9.3	9.3	8.4	8.4	8.4
82.5°	5.6	5.6	4.6	4.6	4.6
85°	2.8	2.8	2.8	1.9	1.9
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)