

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: P247267

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247267
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 EC8B90935 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7924.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

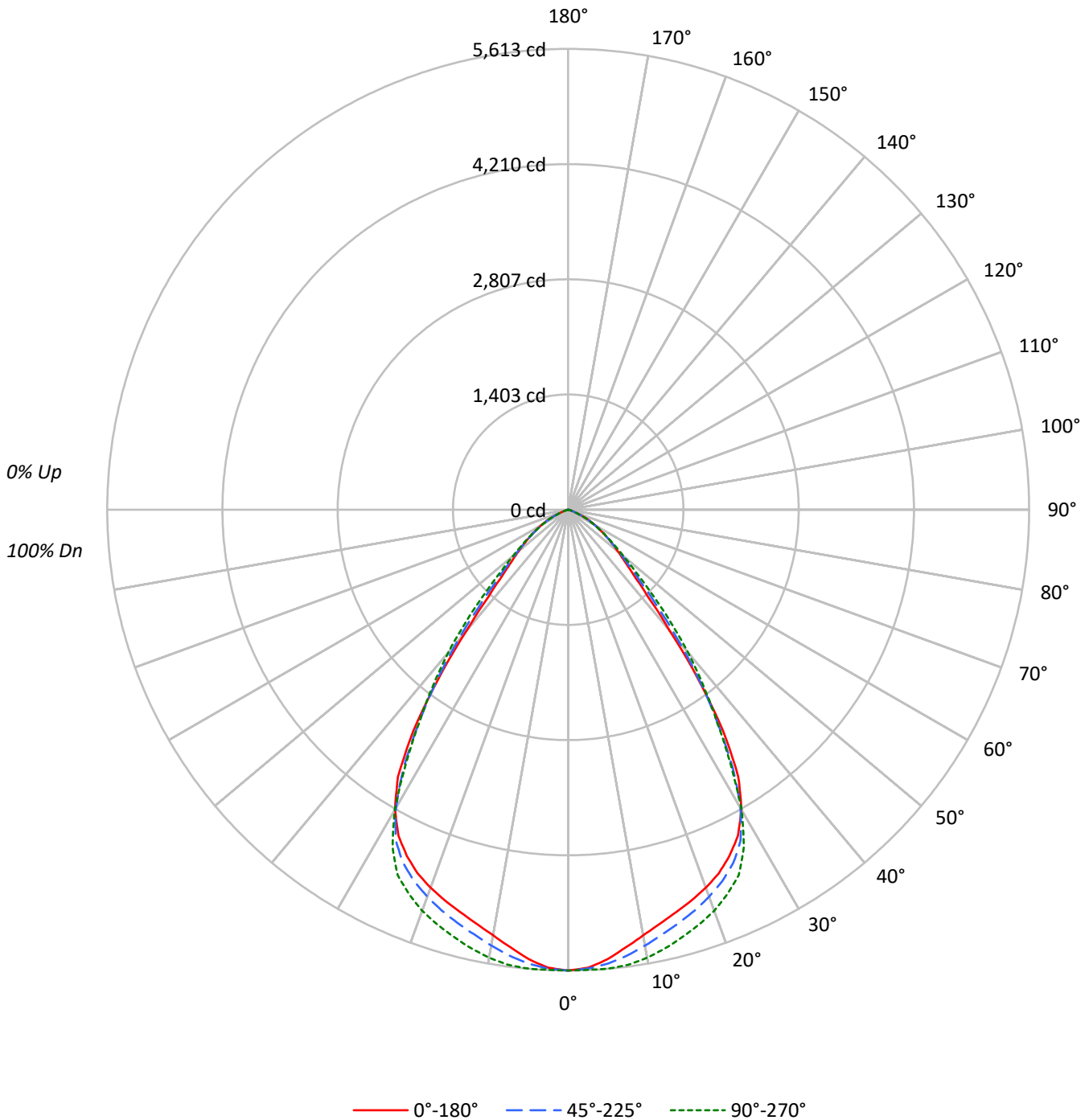
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	173090	173090	173090
5°	170124	171758	173662
10°	164814	168812	173506
15°	162024	166318	171991
20°	160749	164625	170584
25°	158205	161703	167126
30°	150107	149491	150449
35°	123729	119355	119065
40°	77521	84441	91441
45°	49134	54620	61489
50°	37831	39304	42067
55°	29951	29848	30929
60°	23337	22868	22745
65°	15702	15067	14644
70°	7186	6582	6239
75°	3431	3086	2859
80°	1705	1527	1527
85°	1026	1026	672



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.9	6.6
10°-20°	1474.0	18.6
20°-30°	2170.9	27.4
30°-40°	1974.5	24.9
40°-50°	1022.1	12.9
50°-60°	512.1	6.5
60°-70°	208.6	2.6
70°-80°	33.3	0.4
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°	4169.9	52.6
0°-40°	6144.4	77.5
0°-60°	7678.6	96.9
0°-90°	7924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5613	5613	5613	5613	5613	
5°	5496	5510	5549	5591	5610	517
15°	5075	5110	5210	5330	5388	1434
25°	4650	4682	4753	4861	4912	2129
35°	3287	3266	3171	3144	3163	1982
45°	1127	1166	1252	1350	1410	928
55°	557	555	555	566	575	506
65°	215	214	206	204	201	217
75°	29	28	26	24	24	36
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°	5613.2	5613.2	5613.2	5613.2	5613.2
2.5°	5583.4	5586.3	5594.0	5602.6	5609.4
5°	5496.0	5510.4	5548.8	5591.1	5610.3
7.5°	5376.9	5408.6	5478.7	5557.5	5592.1
10°	5263.6	5300.1	5391.3	5497.0	5541.2
12.5°	5163.7	5199.2	5298.1	5416.3	5471.0
15°	5075.3	5109.9	5209.8	5329.8	5387.5
17.5°	4991.7	5023.4	5118.5	5238.6	5297.2
20°	4898.6	4926.4	5016.7	5132.9	5198.3
22.5°	4792.9	4814.1	4898.6	5009.0	5066.7
25°	4649.8	4681.5	4752.6	4861.1	4912.0
27.5°	4475.0	4495.2	4544.2	4610.4	4631.6
30°	4215.7	4214.7	4198.4	4198.4	4225.3
32.5°	3855.5	3809.4	3731.6	3684.5	3680.7
35°	3286.8	3265.7	3170.6	3143.7	3162.9
37.5°	2593.4	2607.8	2631.8	2670.2	2704.8
40°	1925.8	1962.3	2097.7	2218.8	2271.6
42.5°	1436.9	1484.0	1622.3	1754.8	1819.2
45°	1126.7	1166.1	1252.5	1349.5	1410.0
47.5°	931.7	951.9	998.0	1063.3	1094.0
50°	788.6	798.2	819.3	852.9	876.9
52.5°	669.5	665.6	677.2	699.2	707.9
55°	557.1	555.2	555.2	565.7	575.3
57.5°	462.0	459.1	453.4	458.2	461.0
60°	378.4	375.6	370.8	369.8	368.8
62.5°	304.5	299.7	290.1	288.2	288.2
65°	215.2	214.2	206.5	203.6	200.7
67.5°	133.5	129.7	122.9	117.2	116.2
70°	79.7	78.8	73.0	69.2	69.2
72.5°	48.0	46.1	43.2	41.3	40.3
75°	28.8	27.9	25.9	24.0	24.0
77.5°	17.3	16.3	15.4	14.4	14.4
80°	9.6	9.6	8.6	8.6	8.6
82.5°	5.8	5.8	4.8	4.8	4.8
85°	2.9	2.9	2.9	1.9	1.9
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)