

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: P247247

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247247
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 EC8B90835 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9292.0 lumens
Efficiency: N/A
Efficacy: 107.9 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

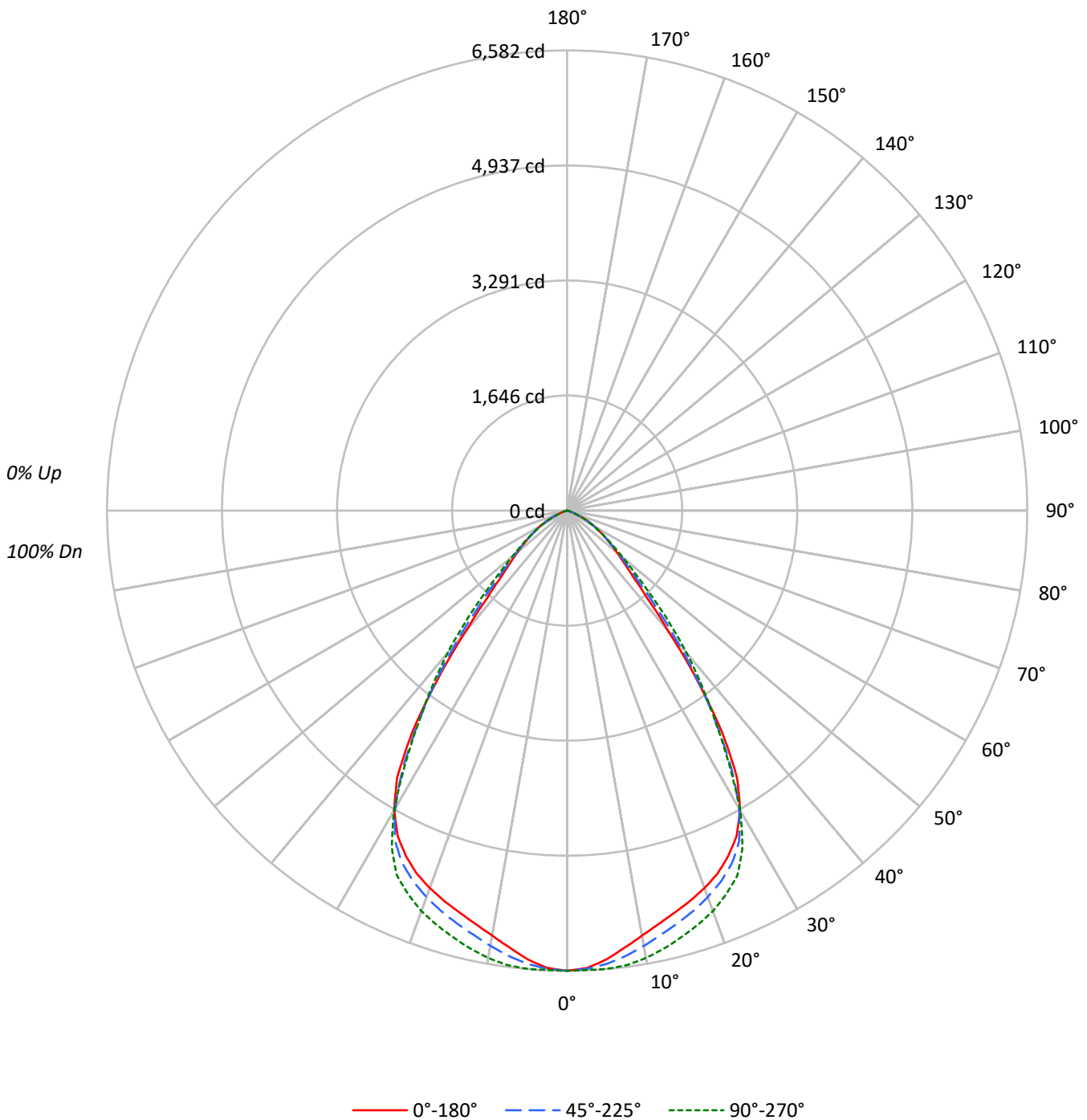
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	202974	202974	202974
5°	199493	201412	203644
10°	193267	197958	203459
15°	189996	195031	201684
20°	188501	193046	200032
25°	185516	189620	195979
30°	176022	175299	176421
35°	145092	139961	139622
40°	90905	99021	107228
45°	57616	64049	72103
50°	44360	46092	49330
55°	35122	34999	36273
60°	27370	26815	26673
65°	18409	17672	17176
70°	8430	7718	7312
75°	4027	3622	3360
80°	2007	1794	1794
85°	1203	1203	814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.6	6.6
10°-20°	1728.5	18.6
20°-30°	2545.7	27.4
30°-40°	2315.4	24.9
40°-50°	1198.6	12.9
50°-60°	600.5	6.5
60°-70°	244.6	2.6
70°-80°	39.0	0.4
80°-90°	4.2	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°	4889.8	52.6
0°-40°	7205.2	77.5
0°-60°	9004.3	96.9
0°-90°	9292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6582	6582	6582	6582	6582	
5°	6445	6462	6507	6556	6579	606
15°	5952	5992	6109	6250	6318	1682
25°	5452	5490	5573	5700	5760	2496
35°	3854	3830	3718	3686	3709	2324
45°	1321	1367	1469	1582	1653	1088
55°	653	651	651	663	675	593
65°	252	251	242	239	235	254
75°	34	33	30	28	28	43
85°	3	3	3	2	2	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6582.3	6582.3	6582.3	6582.3	6582.3
2.5°	6547.3	6550.7	6559.7	6569.9	6577.8
5°	6444.8	6461.7	6506.8	6556.4	6578.9
7.5°	6305.2	6342.3	6424.6	6516.9	6557.5
10°	6172.3	6215.1	6322.1	6446.0	6497.8
12.5°	6055.1	6096.8	6212.8	6351.4	6415.6
15°	5951.5	5992.1	6109.2	6250.0	6317.6
17.5°	5853.5	5890.7	6002.2	6143.0	6211.7
20°	5744.3	5776.9	5882.8	6019.1	6095.7
22.5°	5620.4	5645.2	5744.3	5873.8	5941.4
25°	5452.5	5489.7	5573.1	5700.3	5760.0
27.5°	5247.6	5271.2	5328.7	5406.4	5431.1
30°	4943.5	4942.3	4923.2	4923.2	4954.7
32.5°	4521.1	4467.0	4375.8	4320.6	4316.1
35°	3854.3	3829.5	3718.0	3686.5	3709.0
37.5°	3041.1	3058.0	3086.1	3131.2	3171.7
40°	2258.3	2301.1	2459.9	2601.8	2663.8
42.5°	1685.0	1740.2	1902.4	2057.8	2133.3
45°	1321.2	1367.4	1468.7	1582.5	1653.4
47.5°	1092.5	1116.2	1170.3	1246.8	1282.9
50°	924.7	936.0	960.8	1000.2	1028.3
52.5°	785.1	780.5	794.1	820.0	830.1
55°	653.3	651.0	651.0	663.4	674.7
57.5°	541.8	538.4	531.6	537.3	540.6
60°	443.8	440.4	434.8	433.6	432.5
62.5°	357.0	351.4	340.2	337.9	337.9
65°	252.3	251.2	242.2	238.8	235.4
67.5°	156.6	152.1	144.2	137.4	136.3
70°	93.5	92.4	85.6	81.1	81.1
72.5°	56.3	54.1	50.7	48.4	47.3
75°	33.8	32.7	30.4	28.2	28.2
77.5°	20.3	19.1	18.0	16.9	16.9
80°	11.3	11.3	10.1	10.1	10.1
82.5°	6.8	6.8	5.6	5.6	5.6
85°	3.4	3.4	3.4	2.3	2.3
87.5°	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)