

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: P247271

Luminaire Tested: **LSR8B90D010 EC8B90940 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247271
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 EC8B90940 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8276.0 lumens
Efficiency: N/A
Efficacy: 96.1 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

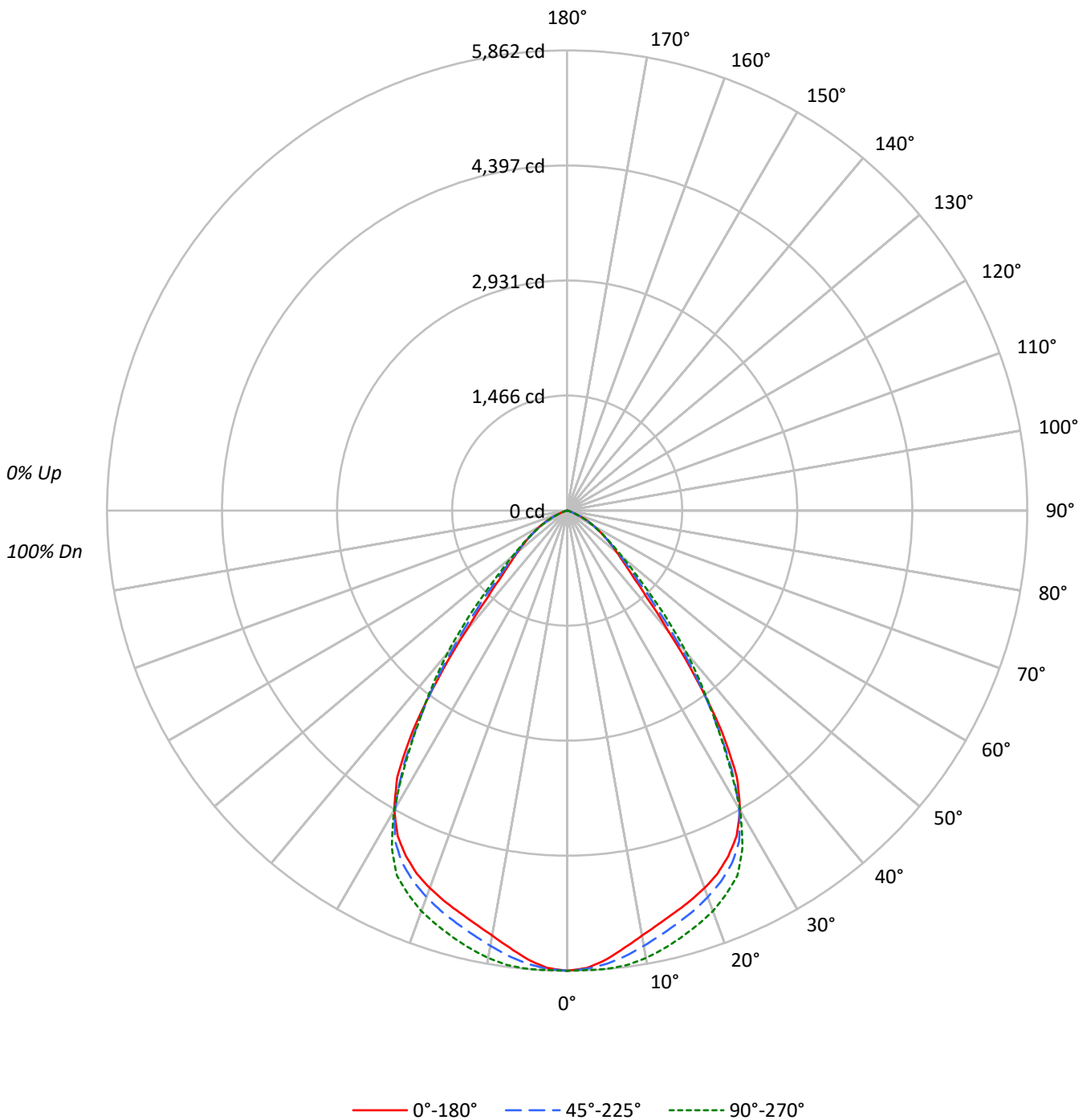
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	180778	180778	180778
5°	177683	179388	181376
10°	172135	176312	181212
15°	169223	173705	179631
20°	167890	171939	178161
25°	165235	168885	174550
30°	156773	156132	157132
35°	129229	124659	124354
40°	80967	88192	95502
45°	51315	57045	64223
50°	39510	41050	43938
55°	31278	31171	32305
60°	24379	23880	23756
65°	16395	15739	15301
70°	7510	6870	6510
75°	3586	3229	2990
80°	1776	1598	1598
85°	1061	1061	708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.2	6.6
10°-20°	1539.5	18.6
20°-30°	2267.3	27.4
30°-40°	2062.2	24.9
40°-50°	1067.5	12.9
50°-60°	534.8	6.5
60°-70°	217.8	2.6
70°-80°	34.7	0.4
80°-90°	3.7	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°	4355.1	52.6
0°-40°	6417.3	77.5
0°-60°	8019.7	96.9
0°-90°	8276.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5862	5862	5862	5862	5862	
5°	5740	5755	5795	5840	5860	540
15°	5301	5337	5441	5567	5627	1498
25°	4856	4890	4964	5077	5130	2223
35°	3433	3411	3312	3283	3303	2070
45°	1177	1218	1308	1410	1473	969
55°	582	580	580	591	601	529
65°	225	224	216	213	210	227
75°	30	29	27	25	25	38
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°	5862.5	5862.5	5862.5	5862.5	5862.5
2.5°	5831.4	5834.5	5842.5	5851.5	5858.5
5°	5740.2	5755.2	5795.3	5839.5	5859.5
7.5°	5615.8	5648.9	5722.1	5804.4	5840.5
10°	5497.4	5535.5	5630.8	5741.2	5787.3
12.5°	5393.1	5430.2	5533.5	5656.9	5714.1
15°	5300.8	5336.9	5441.2	5566.6	5626.8
17.5°	5213.5	5246.6	5345.9	5471.3	5532.5
20°	5116.2	5145.3	5239.6	5361.0	5429.2
22.5°	5005.8	5027.9	5116.2	5231.5	5291.7
25°	4856.4	4889.5	4963.7	5077.1	5130.2
27.5°	4673.8	4694.8	4746.0	4815.2	4837.3
30°	4402.9	4401.9	4384.9	4384.9	4413.0
32.5°	4026.7	3978.6	3897.3	3848.2	3844.2
35°	3432.9	3410.8	3311.5	3283.4	3303.4
37.5°	2708.6	2723.6	2748.7	2788.8	2824.9
40°	2011.4	2049.5	2190.9	2317.3	2372.5
42.5°	1500.7	1549.9	1694.4	1832.8	1900.0
45°	1176.7	1217.9	1308.1	1409.5	1472.7
47.5°	973.1	994.1	1042.3	1110.5	1142.6
50°	823.6	833.6	855.7	890.8	915.9
52.5°	699.2	695.2	707.2	730.3	739.3
55°	581.8	579.8	579.8	590.9	600.9
57.5°	482.5	479.5	473.5	478.5	481.5
60°	395.3	392.2	387.2	386.2	385.2
62.5°	318.0	313.0	303.0	301.0	301.0
65°	224.7	223.7	215.7	212.7	209.7
67.5°	139.4	135.4	128.4	122.4	121.4
70°	83.3	82.3	76.2	72.2	72.2
72.5°	50.2	48.2	45.1	43.1	42.1
75°	30.1	29.1	27.1	25.1	25.1
77.5°	18.1	17.1	16.1	15.0	15.0
80°	10.0	10.0	9.0	9.0	9.0
82.5°	6.0	6.0	5.0	5.0	5.0
85°	3.0	3.0	3.0	2.0	2.0
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)