

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: P247603

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90935 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5312.0 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

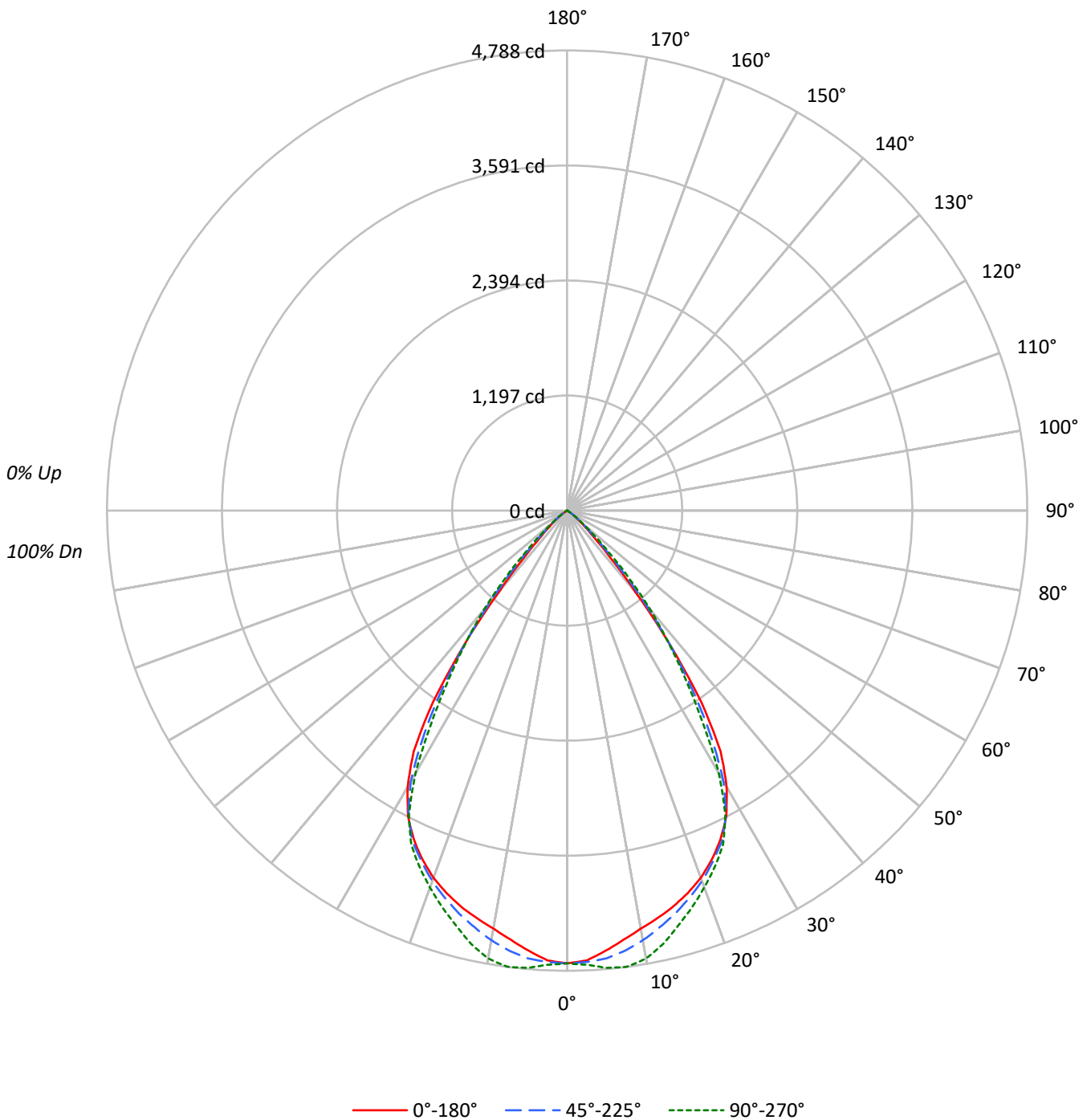
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	145288	145288	145288
5°	142305	144803	147837
10°	138296	142147	148194
15°	136185	138608	142688
20°	133401	134628	136961
25°	128475	129390	130537
30°	118207	115914	112492
35°	91592	85339	81071
40°	44505	50499	54097
45°	17217	22158	26850
50°	8064	9216	10554
55°	3355	3613	3720
60°	1129	1067	1005
65°	139	212	212
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.9	8.3
10°-20°	1225.6	23.1
20°-30°	1727.0	32.5
30°-40°	1397.2	26.3
40°-50°	443.6	8.4
50°-60°	70.9	1.3
60°-70°	4.8	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	3395.5	63.9
0°-40°	4792.7	90.2
0°-60°	5307.2	99.9
0°-90°	5312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4712	4712	4712	4712	4712	
5°	4597	4618	4678	4746	4776	433
15°	4266	4282	4342	4424	4470	1201
25°	3776	3783	3803	3824	3837	1724
35°	2433	2367	2267	2185	2154	1443
45°	395	426	508	580	616	368
55°	62	63	67	70	69	65
65°	2	3	3	3	3	5
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4711.6	4711.6	4711.6	4711.6	4711.6
2.5°	4684.7	4689.5	4701.1	4723.2	4729.9
5°	4597.3	4618.5	4678.0	4746.2	4776.0
7.5°	4503.2	4531.1	4618.5	4733.7	4787.5
10°	4416.7	4446.5	4539.7	4662.7	4732.8
12.5°	4343.7	4366.8	4442.7	4553.1	4618.5
15°	4265.9	4282.3	4341.8	4424.4	4469.6
17.5°	4172.8	4187.2	4226.5	4290.9	4325.5
20°	4065.2	4069.0	4102.6	4143.9	4173.7
22.5°	3931.6	3935.5	3954.7	3994.1	4014.3
25°	3776.0	3782.8	3802.9	3824.1	3836.6
27.5°	3584.9	3587.8	3578.2	3560.9	3564.7
30°	3319.8	3309.2	3255.4	3181.4	3159.3
32.5°	2972.0	2901.9	2785.7	2681.9	2639.7
35°	2433.1	2366.9	2267.0	2185.3	2153.6
37.5°	1748.3	1753.1	1746.3	1728.1	1731.9
40°	1105.6	1149.8	1254.5	1322.7	1343.9
42.5°	663.8	711.8	827.1	919.3	949.1
45°	394.8	426.5	508.1	580.2	615.7
47.5°	253.6	269.0	309.3	351.6	371.7
50°	168.1	175.8	192.1	211.3	220.0
52.5°	107.6	110.5	118.2	124.9	131.6
55°	62.4	63.4	67.2	70.1	69.2
57.5°	32.7	32.7	32.7	32.7	32.7
60°	18.3	17.3	17.3	17.3	16.3
62.5°	8.6	8.6	8.6	7.7	7.7
65°	1.9	2.9	2.9	2.9	2.9
67.5°	0.0	0.0	0.0	0.0	1.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)