

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: P247183

Luminaire Tested: **LSR8B90D010 EC8B90927 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90927 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7440.8 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

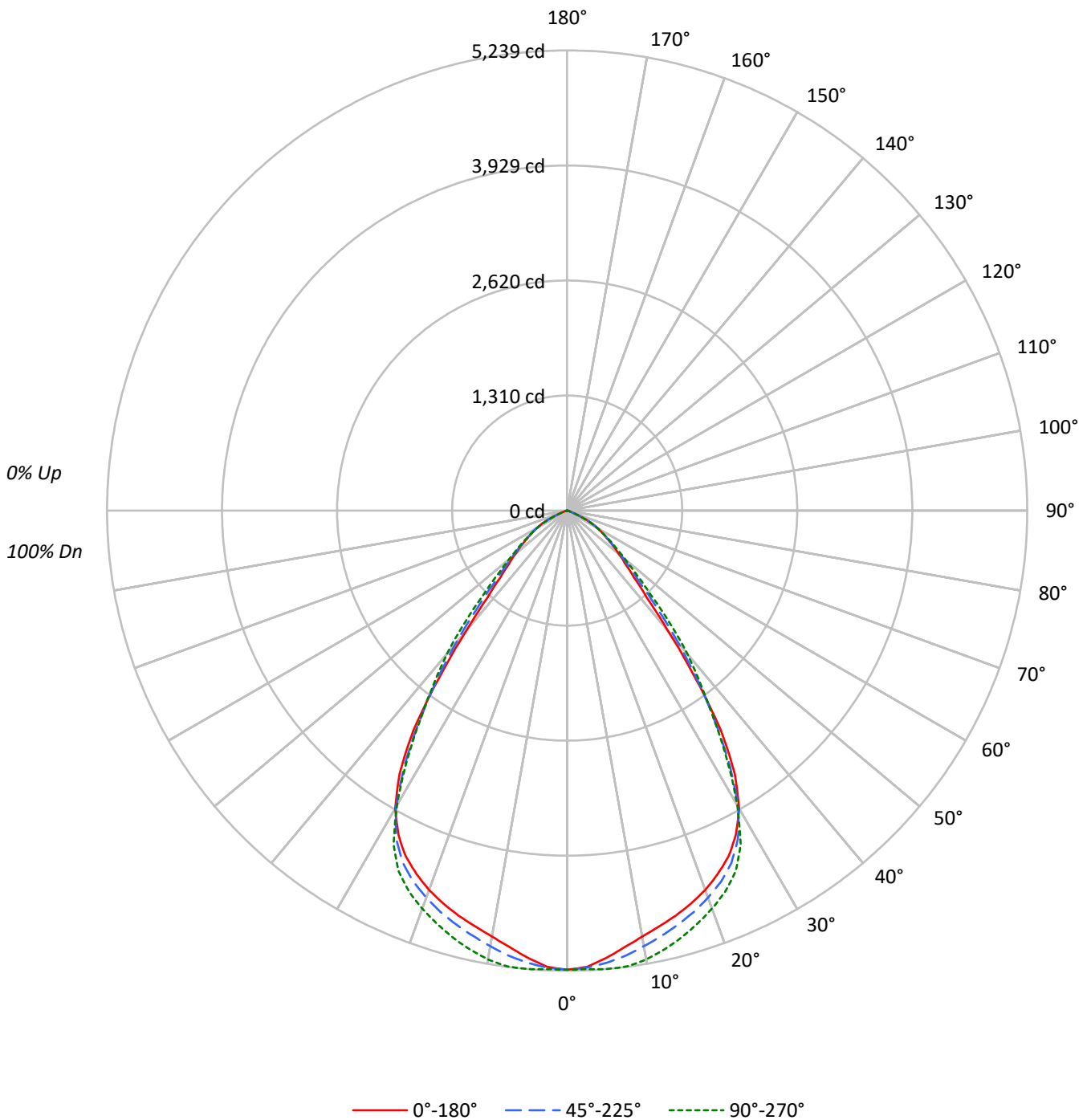
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	96		96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	86	84	82
3	99	91	85	81	97	90	84	80	87	82	79		85	81	77		82	79	76	74
4	93	84	77	72	91	82	76	72	80	75	71		78	74	70		76	72	69	67
5	87	77	70	65	85	76	69	65	74	68	64		72	67	63		71	66	63	61
6	81	71	64	59	80	70	64	59	69	63	58		67	62	58		66	61	57	56
7	77	66	59	54	75	65	58	54	64	58	53		62	57	53		61	56	53	51
8	72	61	54	49	71	60	54	49	59	53	49		58	53	49		57	52	49	47
9	68	57	50	45	67	56	50	45	55	49	45		54	49	45		53	48	45	43
10	64	53	47	42	63	53	46	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°	489.7	6.6
10°-20°	1379.7	18.5
20°-30°	2017.8	27.1
30°-40°	1828.4	24.6
40°-50°	972.2	13.1
50°-60°	518.9	7.0
60°-70°	211.6	2.8
70°-80°	21.4	0.3
80°-90°	1.3	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°	3887.1	52.2
0°-40°	5715.5	76.8
0°-60°	7206.5	96.9
0°-90°	7440.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7440.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5227	5227	5227	5227	5227	
5°	5112	5125	5168	5214	5239	482
15°	4775	4802	4880	4980	5032	1347
25°	4346	4365	4425	4500	4536	1986
35°	3046	3004	2942	2920	2925	1831
45°	1075	1106	1198	1293	1328	879
55°	560	559	570	578	588	508
65°	219	218	213	200	201	218
75°	16	16	15	14	14	23
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5227.4	5227.4	5227.4	5227.4	5227.4
2.5°	5199.2	5198.4	5208.1	5219.6	5225.7
5°	5111.9	5125.2	5167.5	5214.3	5238.9
7.5°	5013.1	5037.8	5111.0	5191.3	5234.5
10°	4924.0	4955.7	5036.1	5141.0	5188.6
12.5°	4847.2	4878.1	4959.2	5066.9	5119.0
15°	4774.8	4802.2	4879.8	4980.4	5031.6
17.5°	4691.0	4717.5	4792.5	4887.8	4931.9
20°	4596.6	4618.7	4689.2	4778.4	4823.4
22.5°	4479.3	4503.2	4574.6	4656.6	4699.0
25°	4346.1	4364.6	4424.6	4500.4	4535.8
27.5°	4160.8	4177.6	4212.9	4253.4	4280.0
30°	3915.6	3911.1	3897.9	3885.5	3874.0
32.5°	3553.8	3511.5	3447.0	3406.5	3408.2
35°	3046.5	3004.1	2941.5	2919.5	2924.8
37.5°	2380.4	2412.1	2437.8	2480.1	2500.3
40°	1783.9	1838.7	1968.3	2081.2	2128.0
42.5°	1341.0	1394.9	1530.8	1649.8	1714.3
45°	1074.6	1106.3	1198.1	1293.4	1327.8
47.5°	899.9	914.1	966.9	1027.8	1057.8
50°	770.2	779.1	807.3	840.8	860.2
52.5°	659.9	663.5	677.6	697.1	709.3
55°	560.2	559.4	569.9	577.9	587.6
57.5°	473.7	473.0	473.0	475.5	481.7
60°	399.7	397.0	397.0	393.5	395.2
62.5°	325.6	322.9	316.7	312.3	310.6
65°	218.8	217.9	212.6	200.2	201.2
67.5°	113.8	113.0	107.7	104.1	102.4
70°	60.9	59.1	56.5	53.8	52.1
72.5°	30.8	30.0	29.1	27.3	27.3
75°	15.9	15.9	15.0	14.1	14.1
77.5°	8.0	8.0	7.1	7.1	7.1
80°	4.4	4.4	3.5	3.5	3.5
82.5°	1.8	1.8	1.8	1.8	1.8
85°	0.9	0.9	0.9	0.9	0.9
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)