

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: P247279

Luminaire Tested: **LSR8B90D010 EC8B90927 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247279
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 EC8B90927 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7278.7 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

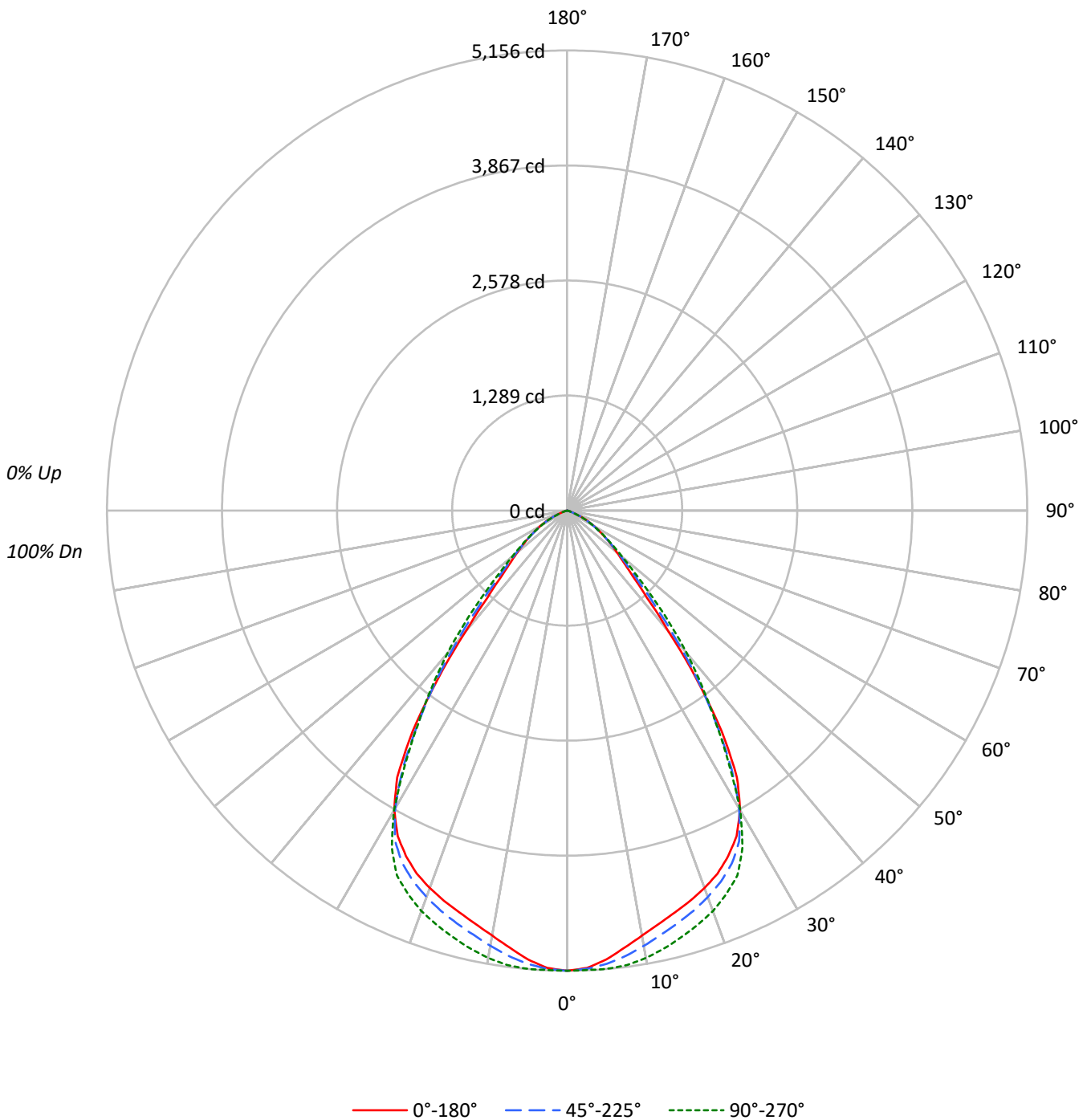
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44
10	65	53	47	42	63	53	47	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°	482.2	6.6
10°-20°	1354.0	18.6
20°-30°	1994.1	27.4
30°-40°	1813.7	24.9
40°-50°	938.9	12.9
50°-60°	470.4	6.5
60°-70°	191.6	2.6
70°-80°	30.5	0.4
80°-90°	3.3	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°	3830.3	52.6
0°-40°	5644.0	77.5
0°-60°	7053.3	96.9
0°-90°	7278.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7278.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5156	5156	5156	5156	5156	
5°	5048	5062	5097	5136	5154	475
15°	4662	4694	4786	4896	4949	1317
25°	4271	4300	4366	4465	4512	1956
35°	3019	3000	2912	2888	2905	1821
45°	1035	1071	1150	1240	1295	852
55°	512	510	510	520	528	465
65°	198	197	190	187	184	199
75°	26	26	24	22	22	33
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°	5156.1	5156.1	5156.1	5156.1	5156.1
2.5°	5128.8	5131.5	5138.4	5146.4	5152.6
5°	5048.4	5061.7	5097.0	5135.8	5153.5
7.5°	4939.1	4968.2	5032.6	5104.9	5136.8
10°	4834.9	4868.4	4952.2	5049.3	5090.0
12.5°	4743.2	4775.8	4866.8	4975.2	5025.5
15°	4662.0	4693.8	4785.5	4895.9	4948.8
17.5°	4585.3	4614.4	4701.7	4812.0	4865.8
20°	4499.7	4525.3	4608.2	4715.0	4775.0
22.5°	4402.7	4422.0	4499.7	4601.1	4654.1
25°	4271.2	4300.3	4365.6	4465.2	4512.0
27.5°	4110.6	4129.1	4174.1	4235.0	4254.4
30°	3872.4	3871.5	3856.5	3856.5	3881.2
32.5°	3541.5	3499.2	3427.6	3384.4	3381.0
35°	3019.2	2999.8	2912.4	2887.8	2905.4
37.5°	2382.2	2395.5	2417.5	2452.7	2484.6
40°	1769.0	1802.5	1926.9	2038.0	2086.6
42.5°	1320.0	1363.2	1490.2	1611.9	1671.1
45°	1034.9	1071.1	1150.5	1239.6	1295.2
47.5°	855.8	874.4	916.6	976.7	1005.0
50°	724.4	733.2	752.6	783.4	805.5
52.5°	614.9	611.4	622.0	642.3	650.2
55°	511.8	510.0	510.0	519.6	528.5
57.5°	424.4	421.8	416.5	420.9	423.4
60°	347.6	344.9	340.5	339.6	338.8
62.5°	279.7	275.3	266.4	264.7	264.7
65°	197.7	196.8	189.7	187.1	184.4
67.5°	122.6	119.1	113.0	107.7	106.8
70°	73.2	72.3	67.0	63.6	63.6
72.5°	44.1	42.3	39.7	37.9	37.0
75°	26.4	25.5	23.8	22.0	22.0
77.5°	15.9	15.0	14.1	13.3	13.3
80°	8.8	8.8	8.0	8.0	8.0
82.5°	5.3	5.3	4.4	4.4	4.4
85°	2.7	2.7	2.7	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)