

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 EC8B909727 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 EC8B909727 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: 6614.0 lumens
Efficiency: N/A
Efficacy: 76.8 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

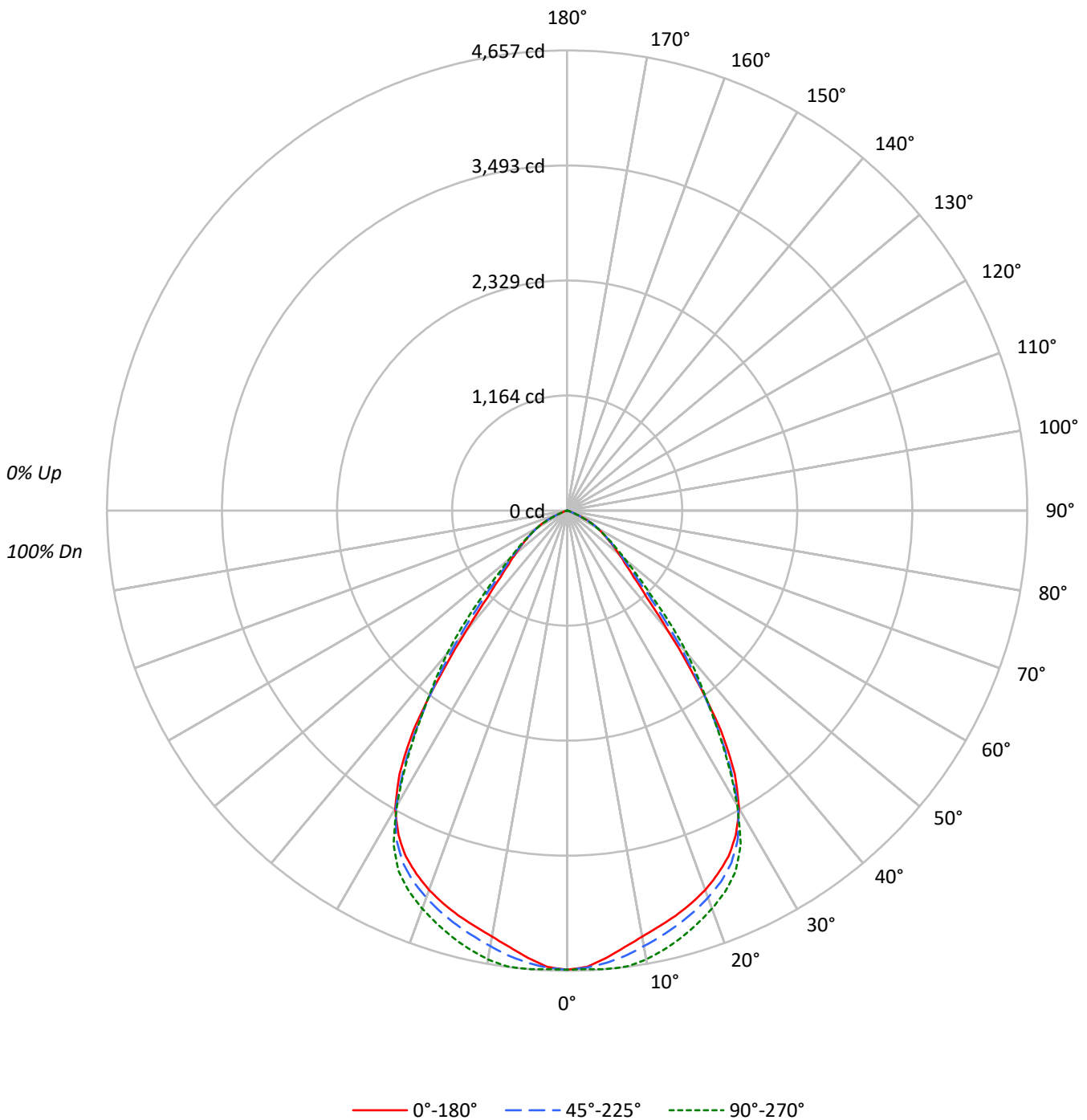
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	435.3	6.6
10°-20°	1226.4	18.5
20°-30°	1793.6	27.1
30°-40°	1625.2	24.6
40°-50°	864.2	13.1
50°-60°	461.2	7.0
60°-70°	188.1	2.8
70°-80°	19.0	0.3
80°-90°	1.1	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°	3455.2	52.2
0°-40°	5080.4	76.8
0°-60°	6405.8	96.9
0°-90°	6614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4647	4647	4647	4647	4647	
5°	4544	4556	4593	4635	4657	428
15°	4244	4269	4338	4427	4472	1197
25°	3863	3880	3933	4000	4032	1766
35°	2708	2670	2615	2595	2600	1627
45°	955	983	1065	1150	1180	781
55°	498	497	507	514	522	452
65°	194	194	189	178	179	194
75°	14	14	13	12	12	20
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°	4646.6	4646.6	4646.6	4646.6	4646.6
2.5°	4621.5	4620.8	4629.4	4639.6	4645.1
5°	4543.9	4555.7	4593.3	4634.9	4656.8
7.5°	4456.1	4478.0	4543.1	4614.5	4652.9
10°	4376.9	4405.1	4476.5	4569.8	4612.1
12.5°	4308.6	4336.1	4408.2	4503.9	4550.2
15°	4244.3	4268.6	4337.6	4427.0	4472.5
17.5°	4169.8	4193.3	4260.0	4344.7	4383.9
20°	4085.9	4105.5	4168.2	4247.5	4287.5
22.5°	3981.6	4002.8	4066.3	4139.2	4176.9
25°	3863.2	3879.6	3933.0	4000.4	4031.8
27.5°	3698.5	3713.4	3744.8	3780.8	3804.4
30°	3480.5	3476.5	3464.8	3453.8	3443.6
32.5°	3158.9	3121.3	3064.0	3028.0	3029.5
35°	2708.0	2670.3	2614.7	2595.1	2599.8
37.5°	2115.9	2144.1	2166.9	2204.5	2222.5
40°	1585.7	1634.4	1749.6	1850.0	1891.6
42.5°	1192.0	1239.9	1360.7	1466.5	1523.8
45°	955.2	983.4	1065.0	1149.7	1180.3
47.5°	799.9	812.5	859.5	913.6	940.3
50°	684.6	692.5	717.6	747.4	764.6
52.5°	586.6	589.8	602.3	619.6	630.5
55°	498.0	497.2	506.6	513.7	522.3
57.5°	421.1	420.4	420.4	422.7	428.2
60°	355.3	352.9	352.9	349.8	351.3
62.5°	289.4	287.0	281.5	277.6	276.1
65°	194.5	193.7	189.0	178.0	178.8
67.5°	101.2	100.4	95.7	92.5	91.0
70°	54.1	52.5	50.2	47.8	46.3
72.5°	27.4	26.7	25.9	24.3	24.3
75°	14.1	14.1	13.3	12.5	12.5
77.5°	7.1	7.1	6.3	6.3	6.3
80°	3.9	3.9	3.1	3.1	3.1
82.5°	1.6	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8
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)