

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: P247143

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247143
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 EC8B90827 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8912.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

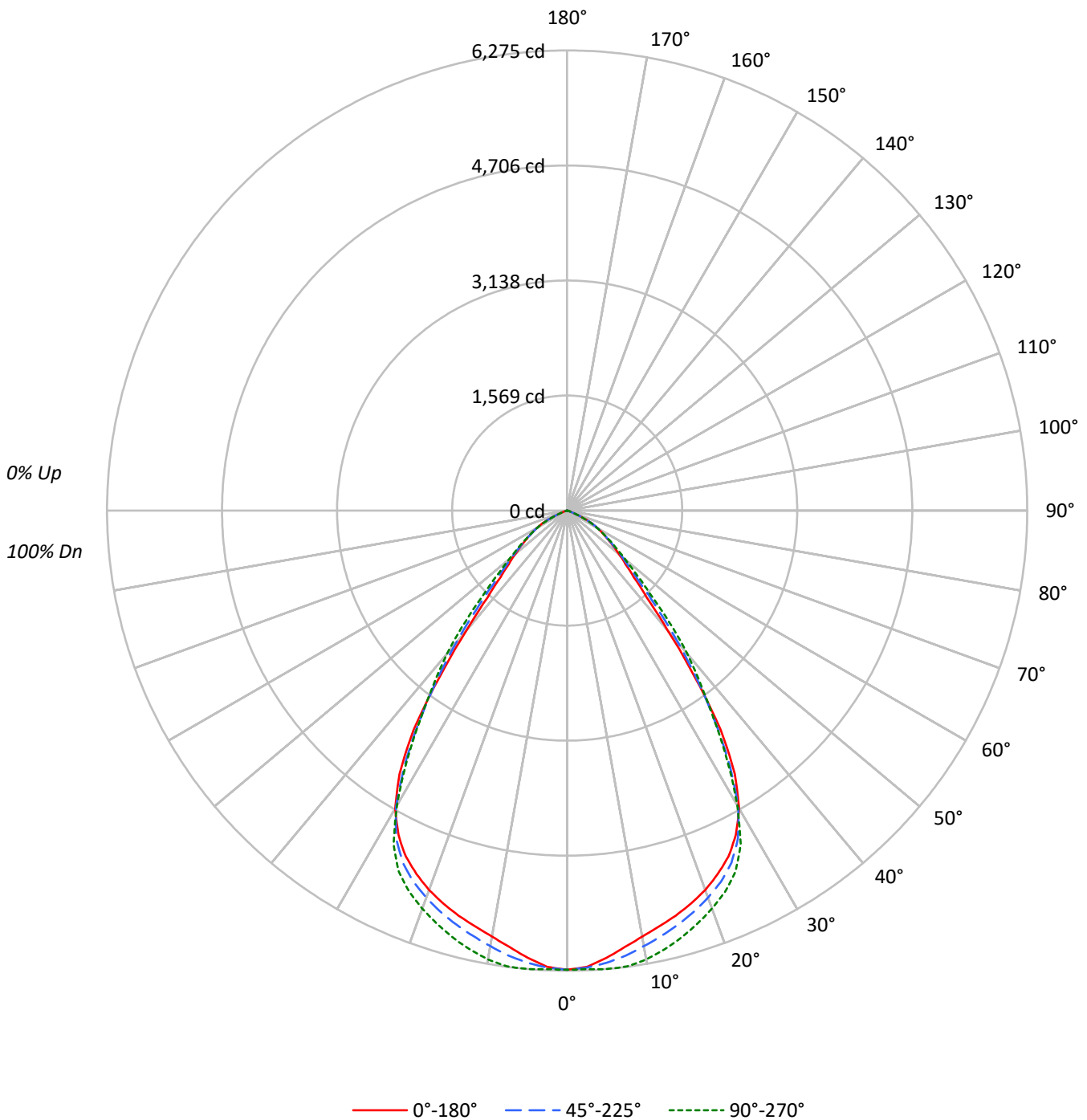
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	193069	193069	193069
5°	189523	191581	194231
10°	184666	188868	194592
15°	182574	186587	192391
20°	180665	184307	189577
25°	177109	180311	184839
30°	166985	166233	165219
35°	137360	132624	131868
40°	86011	94899	102599
45°	56129	62579	69356
50°	44255	46385	49426
55°	36074	36698	37837
60°	29523	29325	29196
65°	19124	18584	17577
70°	6573	6095	5617
75°	2264	2145	2014
80°	941	746	746
85°	389	389	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.5	6.6
10°-20°	1652.5	18.5
20°-30°	2416.8	27.1
30°-40°	2189.9	24.6
40°-50°	1164.4	13.1
50°-60°	621.5	7.0
60°-70°	253.5	2.8
70°-80°	25.6	0.3
80°-90°	1.5	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°	4655.7	52.2
0°-40°	6845.6	76.8
0°-60°	8631.5	96.9
0°-90°	8912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6261	6261	6261	6261	6261	
5°	6123	6138	6189	6245	6275	577
15°	5719	5752	5845	5965	6026	1613
25°	5205	5228	5300	5390	5433	2379
35°	3649	3598	3523	3497	3503	2193
45°	1287	1325	1435	1549	1590	1053
55°	671	670	683	692	704	608
65°	262	261	255	240	241	261
75°	19	19	18	17	17	27
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6261.1	6261.1	6261.1	6261.1	6261.1
2.5°	6227.3	6226.2	6237.8	6251.6	6259.0
5°	6122.7	6138.5	6189.2	6245.2	6274.8
7.5°	6004.3	6033.9	6121.6	6217.8	6269.5
10°	5897.6	5935.6	6031.8	6157.5	6214.6
12.5°	5805.6	5842.6	5939.8	6068.8	6131.1
15°	5719.0	5751.7	5844.7	5965.2	6026.5
17.5°	5618.6	5650.3	5740.1	5854.2	5907.1
20°	5505.5	5531.9	5616.5	5723.2	5777.1
22.5°	5365.0	5393.5	5479.1	5577.4	5628.1
25°	5205.4	5227.6	5299.5	5390.3	5432.6
27.5°	4983.5	5003.6	5045.9	5094.5	5126.2
30°	4689.7	4684.5	4668.6	4653.8	4640.1
32.5°	4256.5	4205.8	4128.6	4080.0	4082.1
35°	3648.9	3598.1	3523.1	3496.7	3503.0
37.5°	2851.0	2889.1	2919.7	2970.4	2994.8
40°	2136.7	2202.2	2357.5	2492.8	2548.8
42.5°	1606.2	1670.7	1833.4	1976.1	2053.2
45°	1287.1	1325.1	1435.0	1549.2	1590.4
47.5°	1077.9	1094.8	1158.2	1231.1	1267.0
50°	922.5	933.1	966.9	1007.1	1030.3
52.5°	790.4	794.7	811.6	834.8	849.6
55°	671.0	670.0	682.6	692.2	703.8
57.5°	567.5	566.4	566.4	569.6	577.0
60°	478.7	475.5	475.5	471.3	473.4
62.5°	389.9	386.8	379.4	374.1	372.0
65°	262.1	261.0	254.7	239.9	240.9
67.5°	136.3	135.3	128.9	124.7	122.6
70°	72.9	70.8	67.6	64.5	62.3
72.5°	37.0	35.9	34.9	32.8	32.8
75°	19.0	19.0	18.0	16.9	16.9
77.5°	9.5	9.5	8.5	8.5	8.5
80°	5.3	5.3	4.2	4.2	4.2
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.1	1.1	1.1	1.1	1.1
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)