

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: P247476

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100930 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10013.9 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

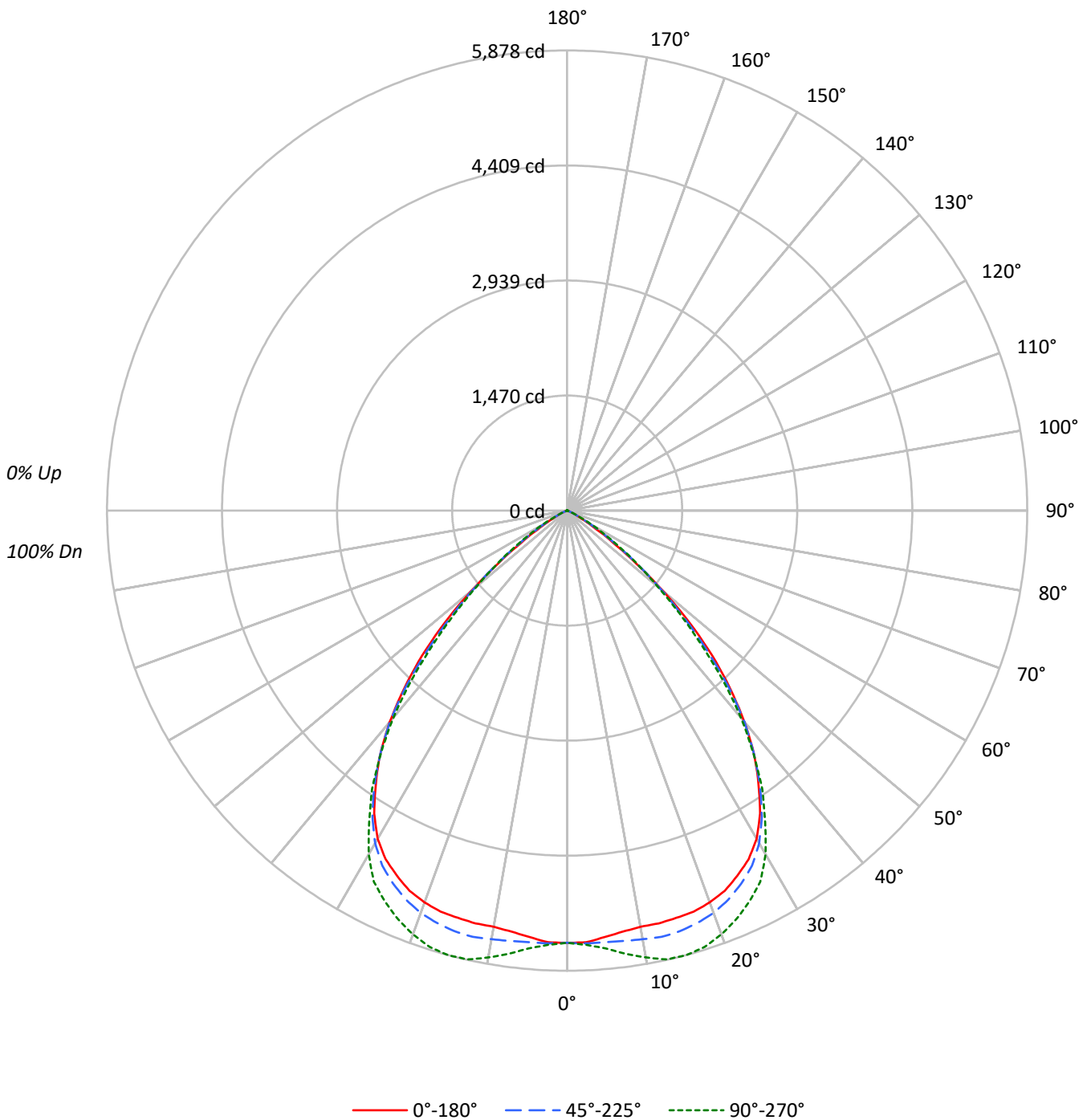
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91						
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82						
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73						
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66						
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59						
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54						
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49						
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44						
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40						
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37						

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°	530.2	5.3
10°-20°	1580.0	15.8
20°-30°	2431.3	24.3
30°-40°	2662.9	26.6
40°-50°	1936.2	19.3
50°-60°	744.8	7.4
60°-70°	116.7	1.2
70°-80°	8.4	0.1
80°-90°	3.4	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°	4541.5	45.4
0°-40°	7204.4	71.9
0°-60°	9885.5	98.7
0°-90°	10013.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10013.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5521	5521	5521	5521	5521	
5°	5470	5497	5535	5588	5612	520
15°	5387	5429	5563	5769	5878	1524
25°	5146	5177	5259	5415	5508	2367
35°	4262	4262	4290	4317	4344	2647
45°	2619	2592	2522	2457	2424	1991
55°	724	744	787	812	835	708
65°	82	85	87	99	102	100
75°	6	14	11	14	14	8
85°	2	0	0	0	2	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5521.0	5521.0	5521.0	5521.0	5521.0
2.5°	5519.9	5528.5	5533.9	5545.7	5551.1
5°	5469.5	5497.4	5534.9	5587.5	5612.3
7.5°	5425.5	5464.2	5544.7	5658.4	5708.8
10°	5397.6	5439.4	5559.7	5714.2	5795.8
12.5°	5400.9	5446.9	5576.9	5762.5	5871.9
15°	5386.9	5428.8	5562.9	5768.9	5878.4
17.5°	5370.8	5405.1	5524.3	5726.0	5844.0
20°	5325.8	5354.7	5468.5	5650.8	5760.4
22.5°	5258.2	5285.0	5379.3	5549.0	5649.8
25°	5145.5	5176.6	5259.2	5414.8	5508.1
27.5°	5020.0	5038.1	5114.3	5256.0	5345.0
30°	4841.8	4848.2	4905.0	5014.6	5068.2
32.5°	4587.5	4586.3	4629.3	4684.0	4704.4
35°	4262.3	4262.3	4290.2	4317.1	4343.9
37.5°	3924.3	3920.0	3923.2	3929.7	3907.1
40°	3523.0	3514.3	3518.7	3480.0	3455.4
42.5°	3083.0	3090.5	3047.6	2978.8	2953.2
45°	2619.4	2592.5	2521.8	2457.3	2424.1
47.5°	2126.9	2085.1	2017.4	1950.9	1945.5
50°	1598.9	1601.0	1557.1	1519.5	1504.5
52.5°	1109.6	1121.3	1143.9	1148.2	1153.6
55°	724.3	743.7	786.6	812.3	834.8
57.5°	443.1	478.6	515.1	563.4	567.7
60°	258.6	275.8	316.6	353.0	369.1
62.5°	146.0	162.0	170.6	192.0	197.4
65°	81.6	84.7	86.9	98.8	101.9
67.5°	49.3	51.5	53.7	52.6	54.7
70°	4.3	9.6	4.3	5.4	3.3
72.5°	18.3	11.8	12.9	9.6	6.4
75°	6.4	13.9	10.8	13.9	13.9
77.5°	4.3	3.3	5.4	6.4	5.4
80°	1.1	0.0	0.0	0.0	0.0
82.5°	9.6	8.6	5.4	8.6	3.3
85°	2.1	0.0	0.0	0.0	2.1
87.5°	6.4	3.3	3.3	7.5	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)