

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: P247520

Luminaire Tested: **LSR8B100D010 EC8B100927 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100927 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7726.4 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

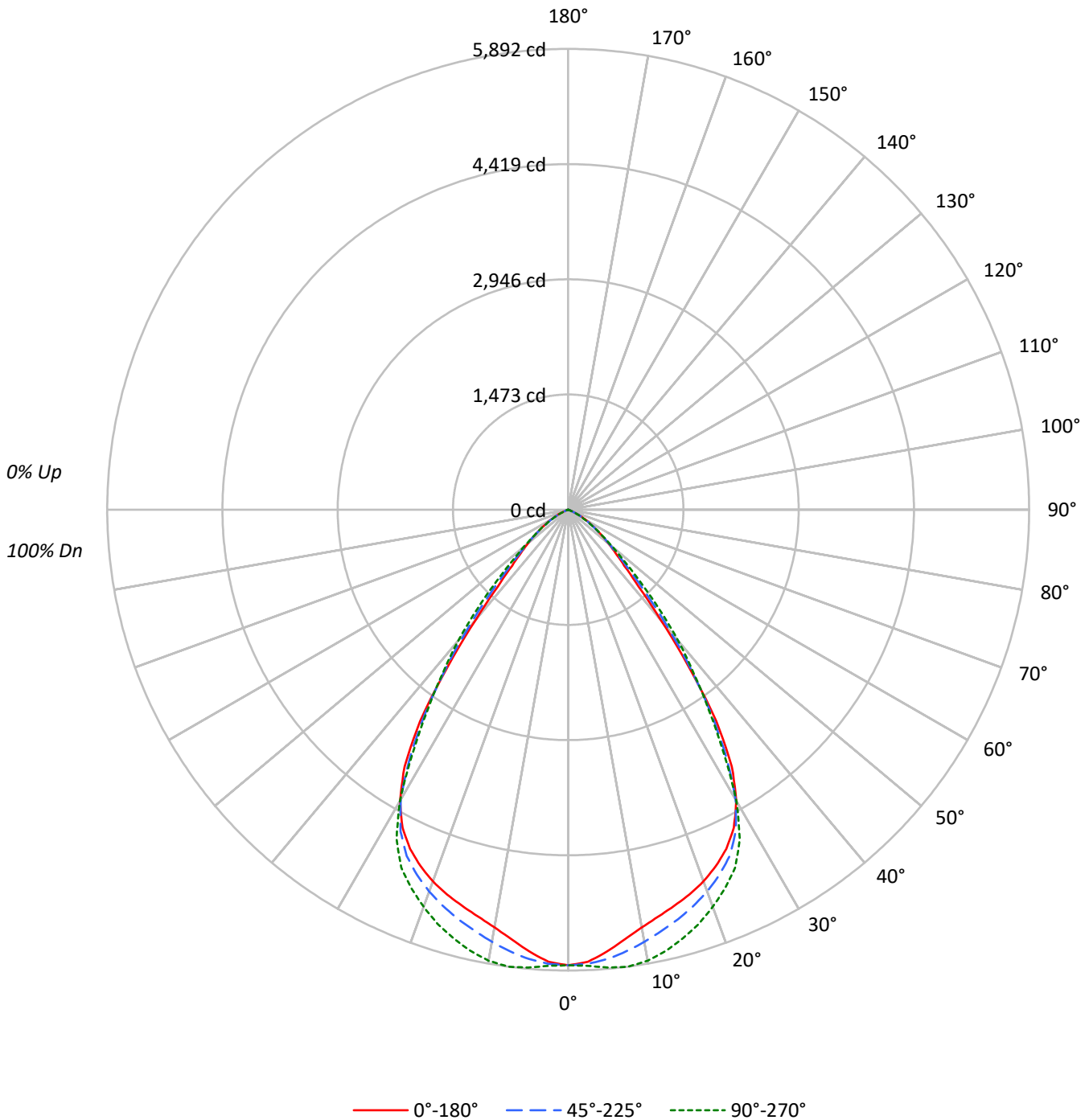
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100				
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84	84	84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76				
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69				
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63				
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53				
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49				
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46	46	46				
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42	42	42				

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°	546.1	7.1
10°-20°	1533.7	19.8
20°-30°	2229.1	28.9
30°-40°	1971.3	25.5
40°-50°	937.7	12.1
50°-60°	390.6	5.1
60°-70°	109.1	1.4
70°-80°	8.2	0.1
80°-90°	0.6	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°	4308.9	55.8
0°-40°	6280.2	81.3
0°-60°	7608.5	98.5
0°-90°	7726.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7726.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5825	5825	5825	5825	5825	
5°	5671	5700	5767	5843	5877	533
15°	5242	5289	5421	5586	5672	1480
25°	4783	4804	4884	4992	5048	2186
35°	3302	3255	3191	3142	3142	1976
45°	1013	1048	1140	1246	1295	843
55°	434	428	418	418	428	394
65°	109	107	101	97	96	119
75°	7	6	5	5	5	10
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5824.8	5824.8	5824.8	5824.8	5824.8
2.5°	5786.1	5791.2	5810.5	5828.8	5837.1
5°	5671.1	5699.6	5766.8	5843.1	5876.7
7.5°	5539.8	5582.6	5695.5	5829.9	5892.0
10°	5420.7	5474.7	5610.0	5776.0	5854.3
12.5°	5327.1	5376.9	5515.4	5688.4	5777.0
15°	5241.6	5289.4	5420.7	5585.6	5672.1
17.5°	5156.1	5201.9	5314.8	5468.6	5552.0
20°	5056.4	5093.0	5194.8	5330.1	5403.5
22.5°	4932.2	4965.8	5051.2	5171.4	5237.6
25°	4782.6	4804.0	4884.4	4992.3	5048.2
27.5°	4584.2	4589.2	4638.0	4708.2	4750.0
30°	4296.0	4293.0	4279.8	4276.8	4300.2
32.5°	3893.1	3848.3	3770.9	3734.2	3705.8
35°	3301.6	3254.8	3190.7	3141.9	3141.9
37.5°	2524.2	2564.8	2590.3	2620.8	2636.1
40°	1833.1	1893.0	2020.3	2152.6	2188.2
42.5°	1332.3	1388.2	1525.6	1673.2	1716.0
45°	1012.7	1048.3	1140.0	1245.8	1294.6
47.5°	818.3	828.4	874.2	937.4	960.8
50°	670.7	673.8	688.1	720.6	738.9
52.5°	542.5	540.4	544.5	553.7	561.8
55°	433.6	428.5	418.3	418.3	427.5
57.5°	334.8	327.7	316.6	311.4	308.4
60°	256.5	249.4	237.2	229.0	228.0
62.5°	184.3	178.1	165.9	158.7	156.7
65°	108.9	106.9	100.8	96.6	95.6
67.5°	50.8	48.8	43.8	41.7	40.7
70°	24.4	23.4	21.4	20.4	19.3
72.5°	12.3	12.3	10.1	10.1	10.1
75°	7.1	6.1	5.1	5.1	5.1
77.5°	4.0	3.0	3.0	3.0	3.0
80°	2.0	2.0	2.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	0.0	0.0	0.0
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)