

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: P247188

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247188
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: LSR8B100D010 EC8B100930 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9050.9 lumens
Efficiency: N/A
Efficacy: 85.1 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

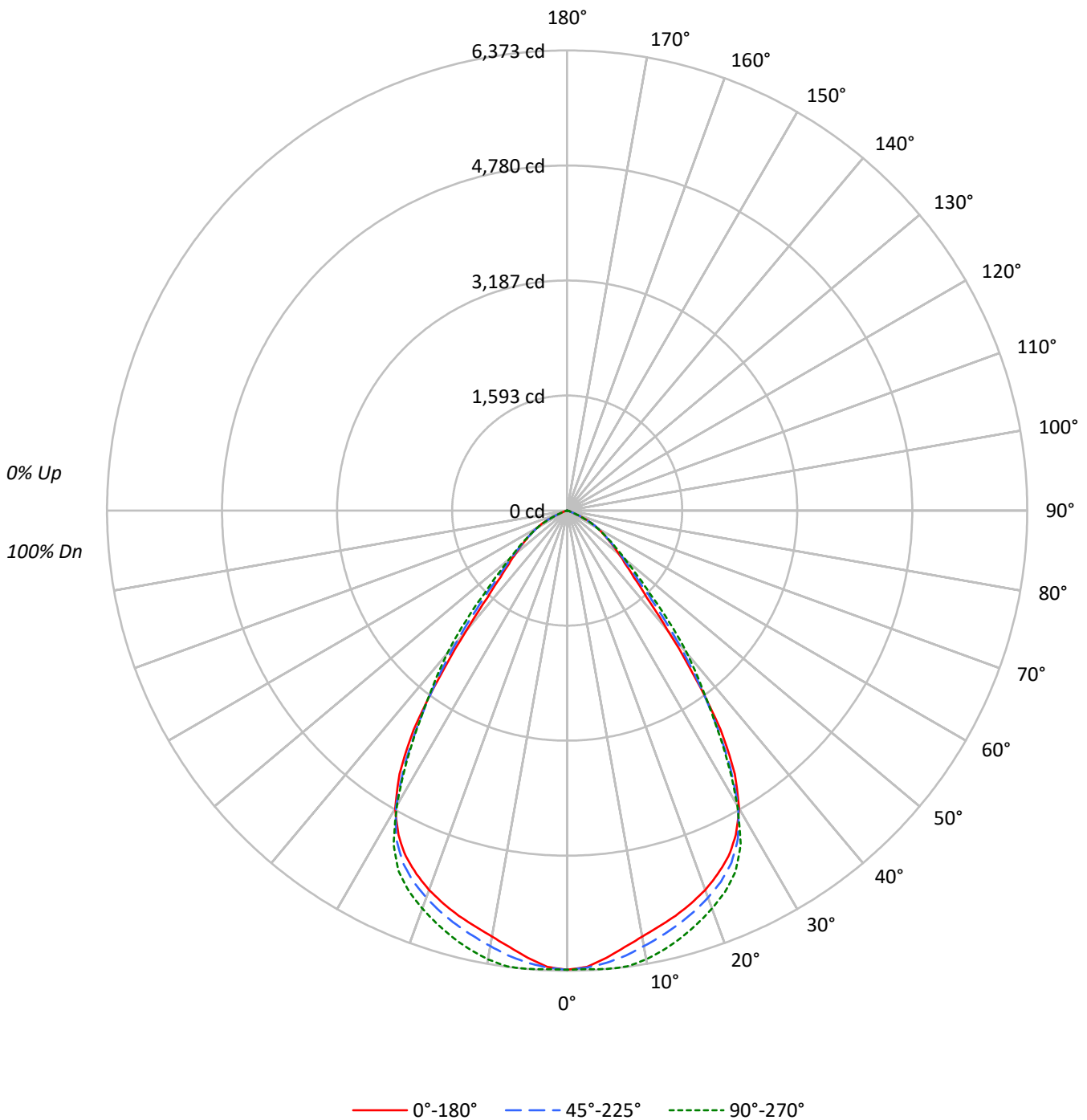
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	595.6	6.6
10°-20°	1678.2	18.5
20°-30°	2454.5	27.1
30°-40°	2224.0	24.6
40°-50°	1182.6	13.1
50°-60°	631.1	7.0
60°-70°	257.4	2.8
70°-80°	26.0	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°	4728.3	52.2
0°-40°	6952.4	76.8
0°-60°	8766.0	96.9
0°-90°	9050.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9050.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6359	6359	6359	6359	6359	
5°	6218	6234	6286	6343	6373	586
15°	5808	5841	5936	6058	6120	1639
25°	5287	5309	5382	5474	5517	2416
35°	3706	3654	3578	3551	3558	2227
45°	1307	1346	1457	1573	1615	1069
55°	682	680	693	703	715	618
65°	266	265	259	244	245	265
75°	19	19	18	17	17	28
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°	6358.8	6358.8	6358.8	6358.8	6358.8
2.5°	6324.3	6323.3	6335.1	6349.0	6356.5
5°	6218.1	6234.2	6285.8	6342.6	6372.7
7.5°	6097.9	6127.9	6217.1	6314.7	6367.3
10°	5989.5	6028.2	6125.8	6253.5	6311.5
12.5°	5896.1	5933.7	6032.4	6163.4	6226.7
15°	5808.1	5841.4	5935.9	6058.2	6120.4
17.5°	5706.2	5738.4	5829.6	5945.6	5999.1
20°	5591.3	5618.2	5704.1	5812.5	5867.2
22.5°	5448.6	5477.7	5564.5	5664.3	5715.9
25°	5286.6	5309.2	5382.1	5474.4	5517.3
27.5°	5061.2	5081.6	5124.5	5173.9	5206.0
30°	4762.9	4757.5	4741.4	4726.4	4712.5
32.5°	4322.8	4271.3	4193.0	4143.7	4145.8
35°	3705.8	3654.2	3578.0	3551.2	3557.6
37.5°	2895.5	2934.1	2965.3	3016.7	3041.5
40°	2170.0	2236.5	2394.3	2531.7	2588.5
42.5°	1631.3	1696.7	1862.0	2006.9	2085.2
45°	1307.2	1345.8	1457.4	1573.3	1615.1
47.5°	1094.7	1111.8	1176.3	1250.3	1286.8
50°	936.9	947.6	982.0	1022.8	1046.3
52.5°	802.7	807.0	824.3	847.8	862.8
55°	681.5	680.4	693.3	703.0	714.7
57.5°	576.3	575.2	575.2	578.4	585.9
60°	486.2	482.9	482.9	478.7	480.8
62.5°	396.0	392.8	385.3	379.9	377.8
65°	266.1	265.1	258.6	243.6	244.7
67.5°	138.4	137.3	130.9	126.7	124.5
70°	74.1	71.9	68.7	65.5	63.3
72.5°	37.6	36.5	35.4	33.3	33.3
75°	19.3	19.3	18.3	17.2	17.2
77.5°	9.6	9.6	8.6	8.6	8.6
80°	5.4	5.4	4.3	4.3	4.3
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)