

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: P247284

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100930 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8853.7 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

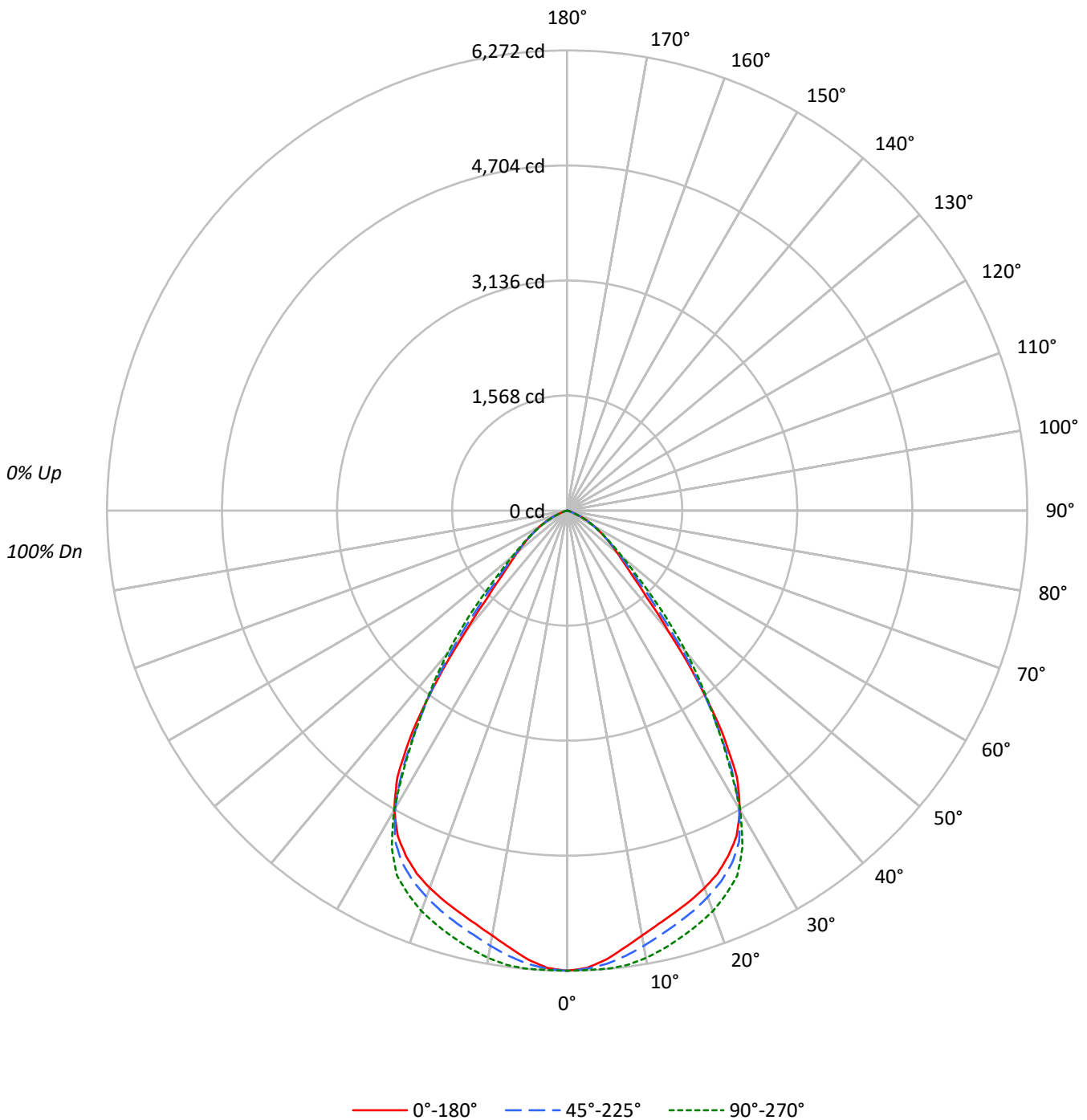
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91	91	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83	83	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75	75	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61	61	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56	56	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51	51	51
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47	47	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44	44	44
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40	40	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°	586.5	6.6
10°-20°	1647.0	18.6
20°-30°	2425.6	27.4
30°-40°	2206.2	24.9
40°-50°	1142.1	12.9
50°-60°	572.2	6.5
60°-70°	233.0	2.6
70°-80°	37.2	0.4
80°-90°	4.0	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°	4659.1	52.6
0°-40°	6865.3	77.5
0°-60°	8579.5	96.9
0°-90°	8853.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8853.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6272	6272	6272	6272	6272	
5°	6141	6157	6200	6247	6268	578
15°	5671	5709	5821	5955	6020	1603
25°	5195	5231	5310	5432	5488	2379
35°	3672	3649	3543	3512	3534	2215
45°	1259	1303	1400	1508	1576	1037
55°	622	620	620	632	643	565
65°	240	239	231	228	224	242
75°	32	31	29	27	27	41
85°	3	3	3	2	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6271.8	6271.8	6271.8	6271.8	6271.8
2.5°	6238.5	6241.7	6250.2	6259.9	6267.4
5°	6140.8	6156.9	6199.8	6247.1	6268.5
7.5°	6007.8	6043.2	6121.4	6209.4	6248.1
10°	5881.1	5921.9	6023.8	6141.8	6191.3
12.5°	5769.5	5809.2	5919.8	6051.7	6112.9
15°	5670.8	5709.4	5821.0	5955.2	6019.5
17.5°	5577.4	5612.8	5719.0	5853.2	5918.7
20°	5473.3	5504.4	5605.3	5735.1	5808.1
22.5°	5355.2	5378.9	5473.3	5596.7	5661.0
25°	5195.4	5230.7	5310.2	5431.5	5488.3
27.5°	5000.0	5022.5	5077.2	5151.3	5175.0
30°	4710.2	4709.2	4690.9	4690.9	4721.0
32.5°	4307.8	4256.3	4169.3	4116.8	4112.5
35°	3672.5	3648.9	3542.6	3512.5	3534.1
37.5°	2897.7	2913.7	2940.5	2983.4	3022.1
40°	2151.8	2192.6	2343.9	2479.1	2538.1
42.5°	1605.5	1658.1	1812.7	1960.7	2032.6
45°	1258.9	1302.8	1399.5	1507.9	1575.5
47.5°	1041.0	1063.5	1115.1	1188.0	1222.3
50°	881.1	891.9	915.4	953.0	979.9
52.5°	748.0	743.7	756.6	781.3	791.0
55°	622.5	620.4	620.4	632.1	642.9
57.5°	516.2	513.0	506.6	512.0	515.1
60°	422.8	419.6	414.2	413.2	412.1
62.5°	340.2	334.8	324.1	322.0	322.0
65°	240.3	239.3	230.7	227.6	224.3
67.5°	149.2	144.8	137.3	130.9	129.8
70°	89.1	88.0	81.6	77.2	77.2
72.5°	53.7	51.6	48.3	46.2	45.1
75°	32.2	31.2	28.9	26.8	26.8
77.5°	19.3	18.3	17.2	16.1	16.1
80°	10.8	10.8	9.6	9.6	9.6
82.5°	6.4	6.4	5.4	5.4	5.4
85°	3.3	3.3	3.3	2.1	2.1
87.5°	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)