

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: P247524

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247524
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 EC8B100930 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8146.3 lumens
Efficiency: N/A
Efficacy: 76.6 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

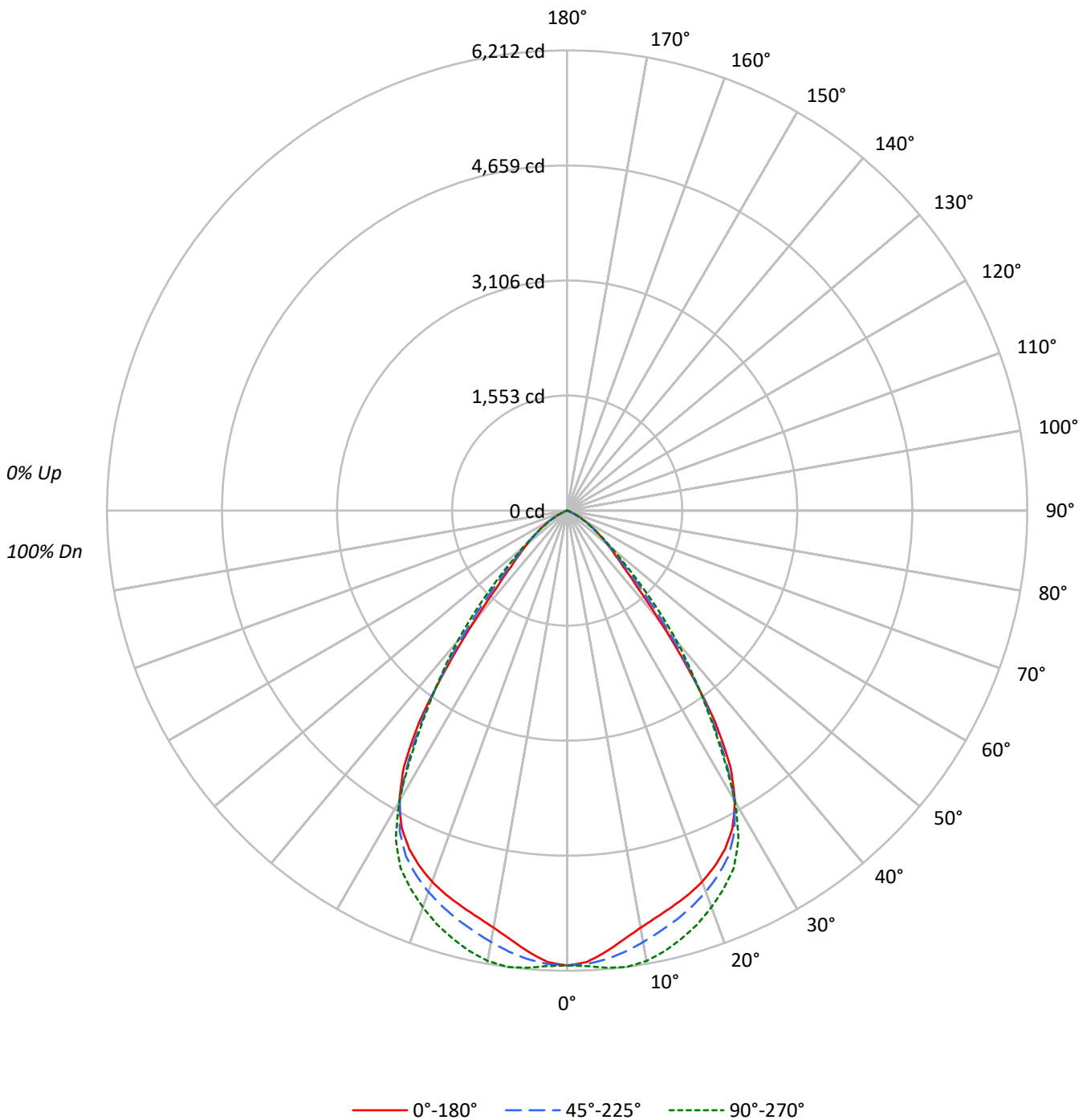
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84	84	84	84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53	53			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49	49			
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46	46	46	46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42	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°	575.8	7.1
10°-20°	1617.0	19.8
20°-30°	2350.2	28.9
30°-40°	2078.4	25.5
40°-50°	988.7	12.1
50°-60°	411.8	5.1
60°-70°	115.1	1.4
70°-80°	8.7	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
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0°-30°	4543.0	55.8
0°-40°	6621.4	81.3
0°-60°	8021.9	98.5
0°-90°	8146.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8146.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6141	6141	6141	6141	6141	
5°	5979	6009	6080	6161	6196	562
15°	5526	5577	5715	5889	5980	1561
25°	5042	5065	5150	5264	5322	2305
35°	3481	3432	3364	3313	3313	2084
45°	1068	1105	1202	1314	1365	889
55°	457	452	441	441	451	416
65°	115	113	106	102	101	125
75°	8	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°	6141.3	6141.3	6141.3	6141.3	6141.3
2.5°	6100.5	6105.9	6126.3	6145.5	6154.2
5°	5979.3	6009.3	6080.1	6160.6	6196.0
7.5°	5840.9	5885.9	6005.0	6146.7	6212.1
10°	5715.3	5772.1	5914.8	6089.7	6172.5
12.5°	5616.5	5669.1	5815.1	5997.5	6090.8
15°	5526.4	5576.9	5715.3	5889.1	5980.3
17.5°	5436.3	5484.6	5603.7	5765.8	5853.7
20°	5331.1	5369.7	5477.1	5619.8	5697.0
22.5°	5200.2	5235.6	5325.8	5452.3	5522.2
25°	5042.5	5065.0	5149.8	5263.5	5322.5
27.5°	4833.2	4838.6	4890.0	4964.1	5008.1
30°	4529.5	4526.3	4512.4	4509.1	4533.8
32.5°	4104.5	4057.3	3975.7	3937.2	3907.1
35°	3481.2	3431.7	3364.1	3312.7	3312.7
37.5°	2661.3	2704.2	2731.0	2763.2	2779.3
40°	1932.6	1995.9	2130.1	2269.6	2307.1
42.5°	1404.7	1463.7	1608.5	1764.1	1809.2
45°	1067.8	1105.3	1201.8	1313.5	1364.9
47.5°	862.7	873.5	921.8	988.3	1013.0
50°	707.1	710.4	725.4	759.7	779.1
52.5°	571.9	569.8	574.1	583.7	592.3
55°	457.1	451.8	441.0	441.0	450.6
57.5°	353.0	345.5	333.7	328.3	325.1
60°	270.4	262.9	250.0	241.5	240.3
62.5°	194.3	187.8	174.9	167.4	165.2
65°	114.8	112.7	106.3	101.9	100.9
67.5°	53.7	51.5	46.2	43.9	42.9
70°	25.8	24.7	22.5	21.4	20.4
72.5°	12.9	12.9	10.8	10.8	10.8
75°	7.5	6.4	5.4	5.4	5.4
77.5°	4.3	3.3	3.3	3.3	3.3
80°	2.1	2.1	2.1	1.1	1.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	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)