

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: P246692

Luminaire Tested: **LSR8B20D010 EC8B20835 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20835 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2176.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

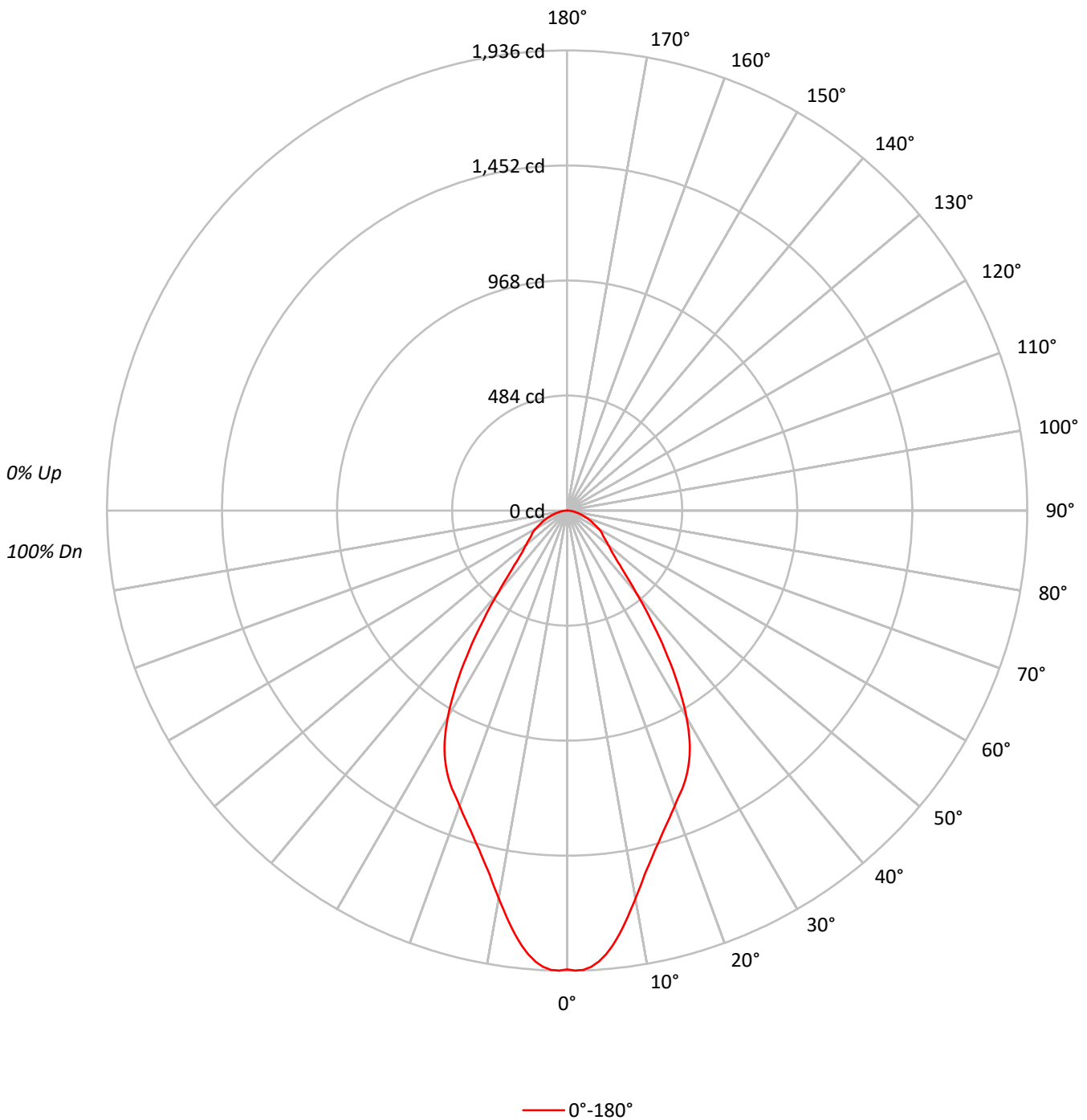
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62		70	65	61		69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56		65	60	56		64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44		54	48	44		53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41		50	45	41		50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59523
5°	58014
10°	51865
15°	46606
20°	43402
25°	40890
30°	35749
35°	27089
40°	18195
45°	12825
50°	10875
55°	9919
60°	9399
65°	8457
70°	7609
75°	6839
80°	6020
85°	5802



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	7.9
10°-20°	411.7	18.9
20°-30°	545.6	25.1
30°-40°	447.4	20.6
40°-50°	238.3	11.0
50°-60°	167.7	7.7
60°-70°	115.7	5.3
70°-80°	60.2	2.8
80°-90°	17.8	0.8
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°	1128.8	51.9
0°-40°	1576.2	72.4
0°-60°	1982.3	91.1
0°-90°	2176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2176.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1930	
5°	1874	172
15°	1460	412
25°	1202	546
35°	720	447
45°	294	238
55°	184	168
65°	116	116
75°	57	60
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1930.3
1°	1935.8
2°	1933.4
3°	1922.0
4°	1902.4
5°	1874.2
6°	1839.0
7°	1796.7
8°	1751.3
9°	1703.0
10°	1656.4
11°	1611.7
12°	1566.3
13°	1528.5
14°	1492.7
15°	1459.9
16°	1429.1
17°	1400.6
18°	1374.3
19°	1347.9
20°	1322.6
21°	1298.0
22°	1276.6
23°	1254.7
24°	1228.9
25°	1201.8
26°	1171.0
27°	1136.3
28°	1097.2
29°	1053.8
30°	1004.0
31°	951.8
32°	897.0
33°	838.6
34°	779.9
35°	719.6
37.5°	576.6
40°	452.0
42.5°	356.9
45°	294.1
47.5°	252.5
50°	226.7
52.5°	204.0
55°	184.5
57.5°	172.5



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CANDELA DISTRIBUTION (continued):

	0°
60°	152.4
62.5°	132.8
65°	115.9
67.5°	100.8
70°	84.4
72.5°	70.4
75°	57.4
77.5°	41.5
80°	33.9
82.5°	24.5
85°	16.4
87.5°	7.6
90°	0.0

(END OF REPORT)