

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: P246686

Luminaire Tested: **LSR8B20D010 EC8B20830 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246686
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 EC8B20830 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2092.9 lumens
Efficiency: N/A
Efficacy: 98.3 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

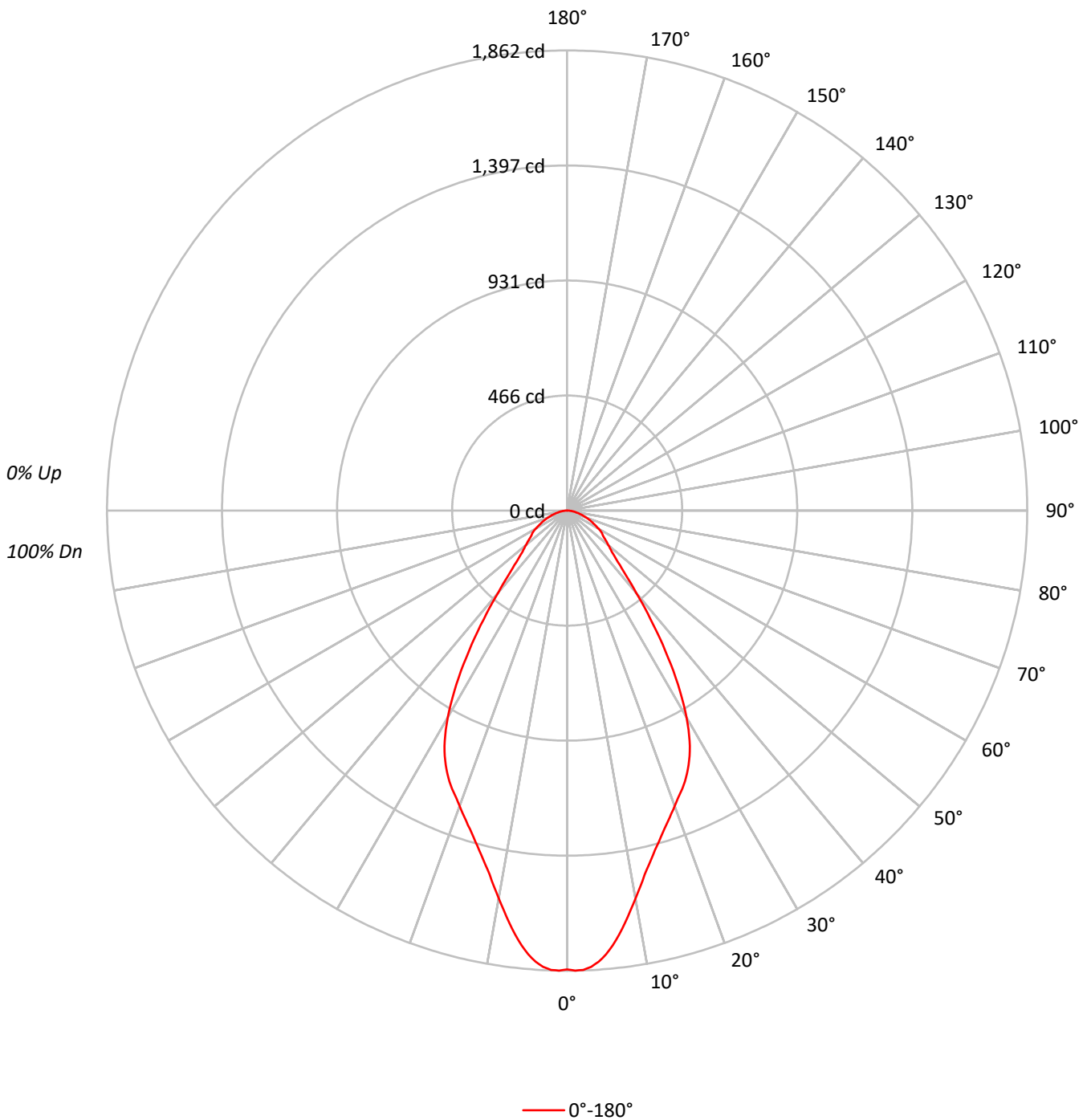
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	57254
5°	55801
10°	49886
15°	44828
20°	41748
25°	39328
30°	34385
35°	26057
40°	17498
45°	12333
50°	10463
55°	9537
60°	9041
65°	8128
70°	7312
75°	6577
80°	5789
85°	5590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	7.9
10°-20°	396.0	18.9
20°-30°	524.8	25.1
30°-40°	430.3	20.6
40°-50°	229.2	11.0
50°-60°	161.3	7.7
60°-70°	111.3	5.3
70°-80°	57.9	2.8
80°-90°	17.1	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°	1085.8	51.9
0°-40°	1516.1	72.4
0°-60°	1906.6	91.1
0°-90°	2092.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2092.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1857	
5°	1803	165
15°	1404	396
25°	1156	525
35°	692	430
45°	283	229
55°	177	161
65°	111	111
75°	55	58
85°	16	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1856.7
1°	1861.9
2°	1859.7
3°	1848.7
4°	1829.8
5°	1802.7
6°	1768.8
7°	1728.1
8°	1684.5
9°	1638.1
10°	1593.2
11°	1550.2
12°	1506.6
13°	1470.2
14°	1435.7
15°	1404.2
16°	1374.6
17°	1347.2
18°	1321.8
19°	1296.5
20°	1272.2
21°	1248.5
22°	1227.9
23°	1206.8
24°	1182.0
25°	1155.9
26°	1126.3
27°	1093.0
28°	1055.3
29°	1013.6
30°	965.7
31°	915.5
32°	862.8
33°	806.6
34°	750.1
35°	692.2
37.5°	554.6
40°	434.7
42.5°	343.3
45°	282.8
47.5°	242.9
50°	218.1
52.5°	196.3
55°	177.4
57.5°	165.9



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CANDELA DISTRIBUTION (continued):

	0°
60°	146.6
62.5°	127.8
65°	111.4
67.5°	96.9
70°	81.1
72.5°	67.7
75°	55.2
77.5°	39.9
80°	32.6
82.5°	23.6
85°	15.8
87.5°	7.3
90°	0.0

(END OF REPORT)