

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: P246680

Luminaire Tested: **LSR8B20D010 EC8B20827 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246680
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 EC8B20827 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2042.0 lumens
Efficiency: N/A
Efficacy: 95.9 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

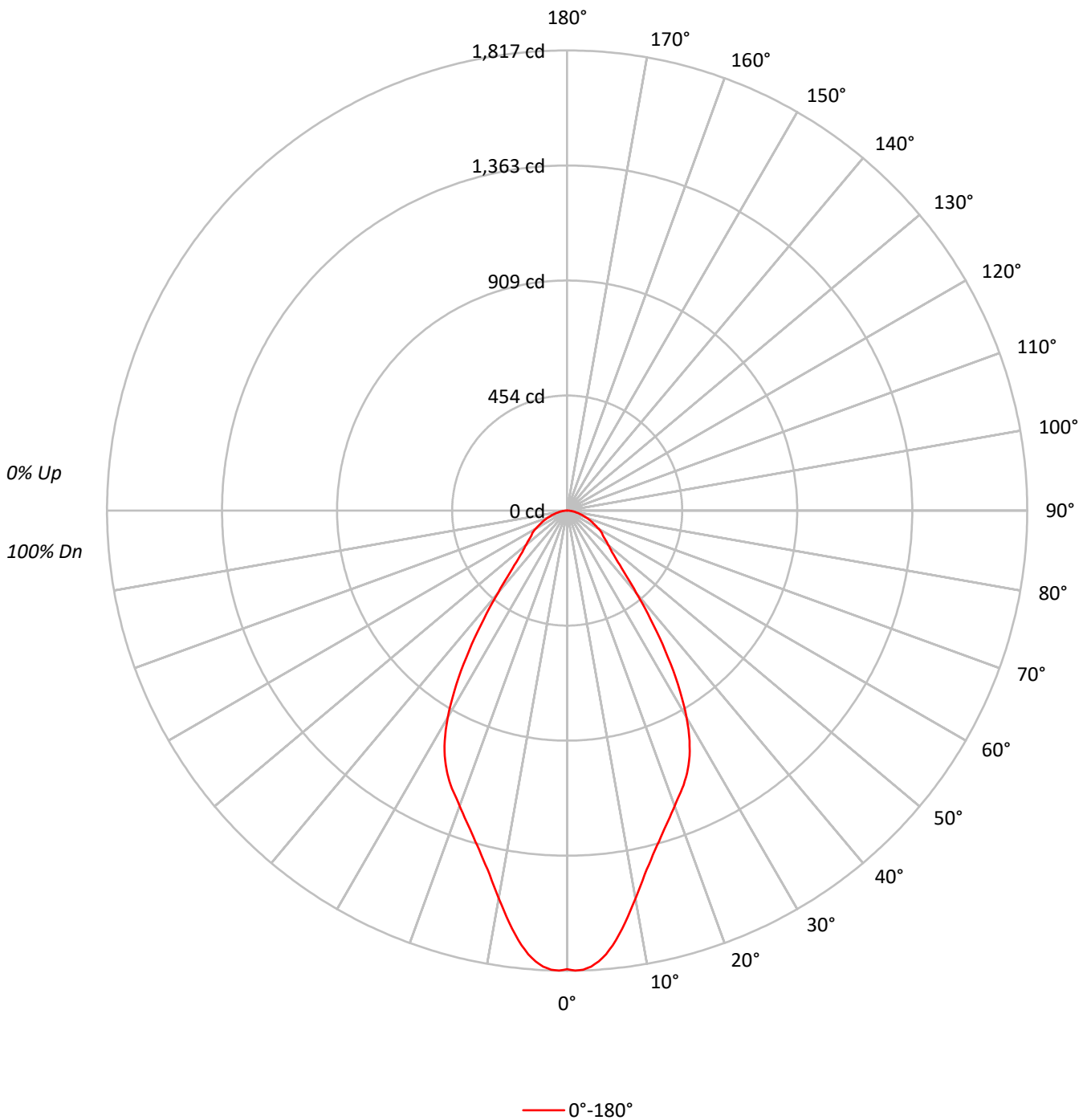
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	55857
5°	54442
10°	48671
15°	43736
20°	40730
25°	38372
30°	33549
35°	25421
40°	17072
45°	12036
50°	10204
55°	9306
60°	8819
65°	7931
70°	7141
75°	6422
80°	5647
85°	5449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	7.9
10°-20°	386.4	18.9
20°-30°	512.0	25.1
30°-40°	419.8	20.6
40°-50°	223.7	11.0
50°-60°	157.4	7.7
60°-70°	108.6	5.3
70°-80°	56.5	2.8
80°-90°	16.7	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°	1059.3	51.9
0°-40°	1479.2	72.4
0°-60°	1860.2	91.1
0°-90°	2042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2042.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1811	
5°	1759	161
15°	1370	386
25°	1128	512
35°	675	420
45°	276	224
55°	173	157
65°	109	109
75°	54	57
85°	15	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1811.4
1°	1816.6
2°	1814.4
3°	1803.6
4°	1785.2
5°	1758.8
6°	1725.7
7°	1686.0
8°	1643.5
9°	1598.1
10°	1554.4
11°	1512.5
12°	1469.9
13°	1434.4
14°	1400.7
15°	1370.0
16°	1341.1
17°	1314.4
18°	1289.6
19°	1264.9
20°	1241.2
21°	1218.1
22°	1198.0
23°	1177.4
24°	1153.2
25°	1127.8
26°	1098.9
27°	1066.3
28°	1029.6
29°	988.9
30°	942.2
31°	893.2
32°	841.8
33°	786.9
34°	731.9
35°	675.3
37.5°	541.1
40°	424.1
42.5°	335.0
45°	276.0
47.5°	237.0
50°	212.7
52.5°	191.5
55°	173.1
57.5°	161.9



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CANDELA DISTRIBUTION (continued):

	0°
60°	143.0
62.5°	124.7
65°	108.7
67.5°	94.6
70°	79.2
72.5°	66.1
75°	53.9
77.5°	39.0
80°	31.8
82.5°	23.0
85°	15.4
87.5°	7.1
90°	0.0

(END OF REPORT)