

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: P246734

Luminaire Tested: **LSR8B20D010 EC8B20950 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246734
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 EC8B20950 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2006.9 lumens
Efficiency: N/A
Efficacy: 94.2 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

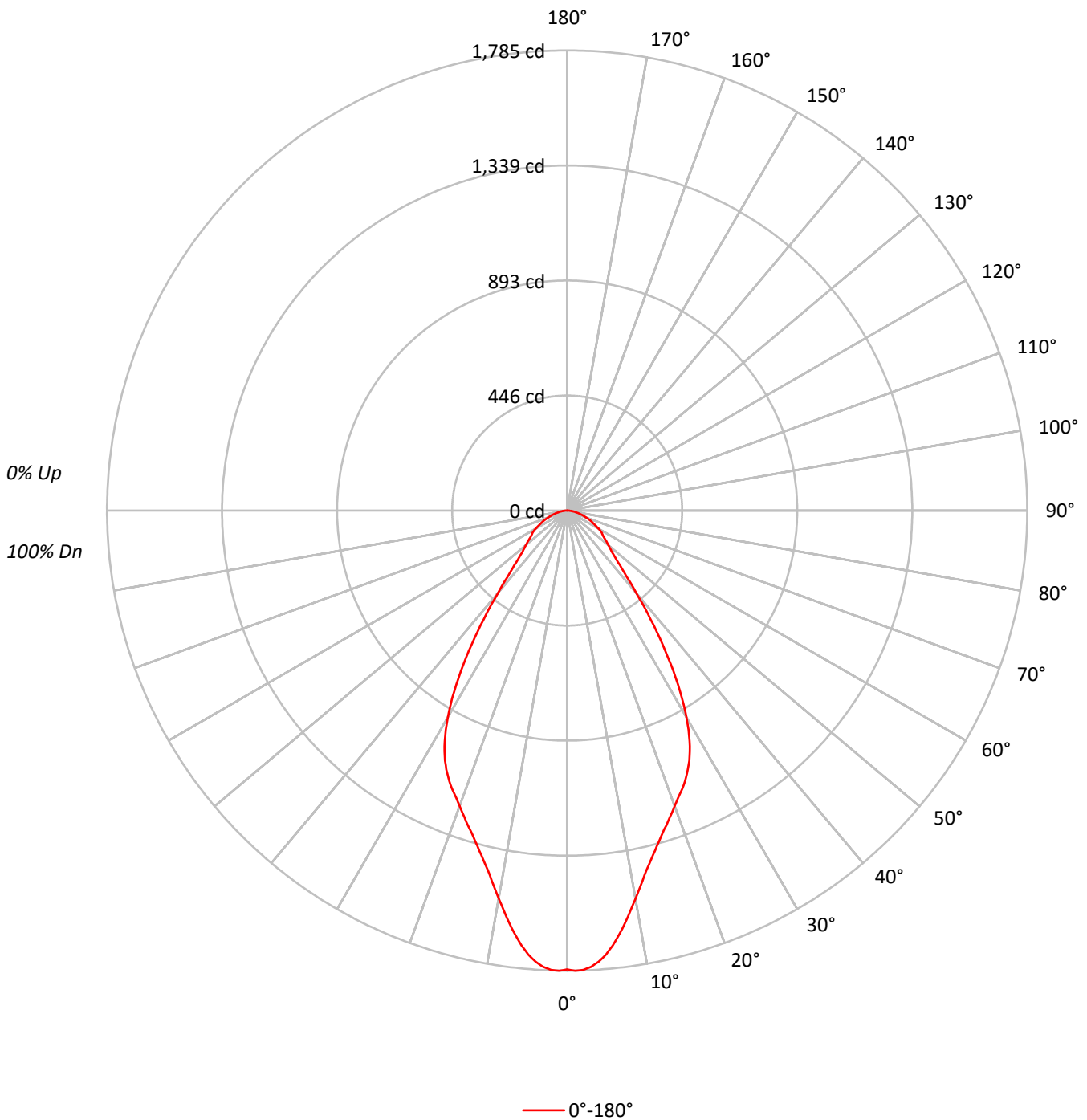
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	54901
5°	53507
10°	47835
15°	42986
20°	40031
25°	37712
30°	32975
35°	24984
40°	16782
45°	11827
50°	10031
55°	9145
60°	8665
65°	7800
70°	7014
75°	6303
80°	5558
85°	5342



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	7.9
10°-20°	379.7	18.9
20°-30°	503.2	25.1
30°-40°	412.6	20.6
40°-50°	219.8	11.0
50°-60°	154.7	7.7
60°-70°	106.7	5.3
70°-80°	55.5	2.8
80°-90°	16.4	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°	1041.2	51.9
0°-40°	1453.8	72.4
0°-60°	1828.3	91.1
0°-90°	2006.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2006.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1780	
5°	1729	158
15°	1346	380
25°	1108	503
35°	664	413
45°	271	220
55°	170	155
65°	107	107
75°	53	56
85°	15	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1780.4
1°	1785.4
2°	1783.3
3°	1772.7
4°	1754.6
5°	1728.6
6°	1696.2
7°	1657.1
8°	1615.3
9°	1570.8
10°	1527.7
11°	1486.5
12°	1444.7
13°	1409.8
14°	1376.7
15°	1346.5
16°	1318.1
17°	1291.8
18°	1267.5
19°	1243.2
20°	1219.9
21°	1197.2
22°	1177.5
23°	1157.2
24°	1133.5
25°	1108.4
26°	1080.0
27°	1048.0
28°	1012.0
29°	972.0
30°	926.1
31°	877.9
32°	827.4
33°	773.5
34°	719.3
35°	663.7
37.5°	531.8
40°	416.9
42.5°	329.2
45°	271.2
47.5°	232.9
50°	209.1
52.5°	188.2
55°	170.1
57.5°	159.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	140.5
62.5°	122.5
65°	106.9
67.5°	92.9
70°	77.8
72.5°	65.0
75°	52.9
77.5°	38.3
80°	31.3
82.5°	22.6
85°	15.1
87.5°	7.0
90°	0.0

(END OF REPORT)