

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: P246698

Luminaire Tested: **LSR8B20D010 EC8B20840 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246698
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 EC8B20840 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2162.0 lumens
Efficiency: N/A
Efficacy: 101.5 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

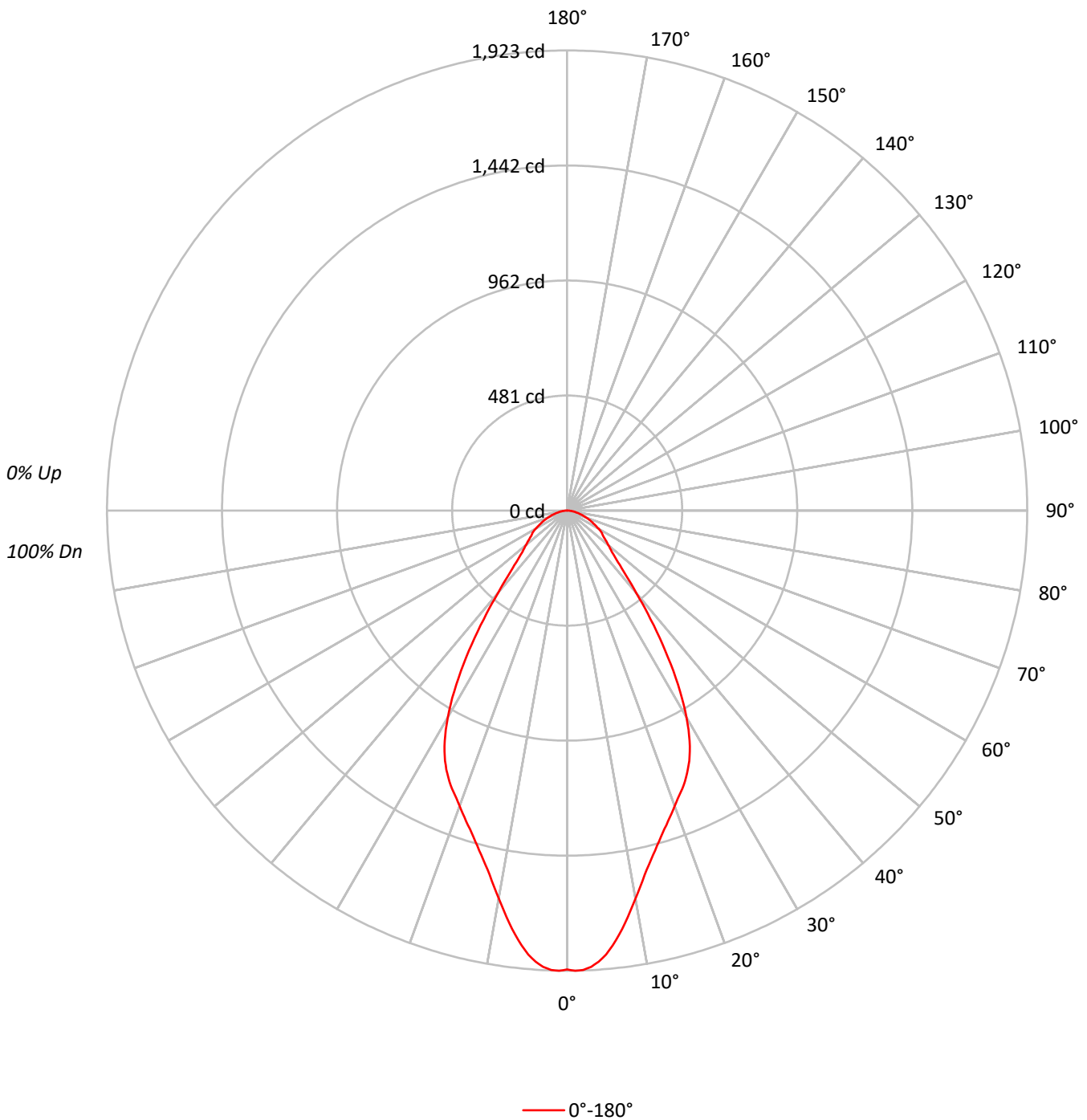
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	59141
5°	57640
10°	51530
15°	46306
20°	43123
25°	40625
30°	35521
35°	26916
40°	18078
45°	12743
50°	10803
55°	9854
60°	9337
65°	8398
70°	7555
75°	6791
80°	5984
85°	5767



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	7.9
10°-20°	409.1	18.9
20°-30°	542.1	25.1
30°-40°	444.5	20.6
40°-50°	236.8	11.0
50°-60°	166.7	7.7
60°-70°	114.9	5.3
70°-80°	59.8	2.8
80°-90°	17.7	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°	1121.6	51.9
0°-40°	1566.1	72.4
0°-60°	1969.5	91.1
0°-90°	2162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2162.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1918	
5°	1862	170
15°	1450	409
25°	1194	542
35°	715	445
45°	292	237
55°	183	167
65°	115	115
75°	57	60
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1917.9
1°	1923.3
2°	1921.0
3°	1909.6
4°	1890.1
5°	1862.1
6°	1827.2
7°	1785.1
8°	1740.0
9°	1692.1
10°	1645.7
11°	1601.3
12°	1556.3
13°	1518.7
14°	1483.1
15°	1450.5
16°	1419.9
17°	1391.6
18°	1365.4
19°	1339.2
20°	1314.1
21°	1289.7
22°	1268.4
23°	1246.6
24°	1221.0
25°	1194.0
26°	1163.5
27°	1129.0
28°	1090.1
29°	1047.1
30°	997.6
31°	945.7
32°	891.3
33°	833.2
34°	774.9
35°	715.0
37.5°	572.9
40°	449.1
42.5°	354.6
45°	292.2
47.5°	250.9
50°	225.2
52.5°	202.7
55°	183.3
57.5°	171.4



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CANDELA DISTRIBUTION (continued):

	0°
60°	151.4
62.5°	132.0
65°	115.1
67.5°	100.1
70°	83.8
72.5°	70.0
75°	57.0
77.5°	41.3
80°	33.7
82.5°	24.4
85°	16.3
87.5°	7.6
90°	0.0

(END OF REPORT)