

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: P243800

Luminaire Tested: **LSR8B20D010 EC8B20827 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20827 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2168.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

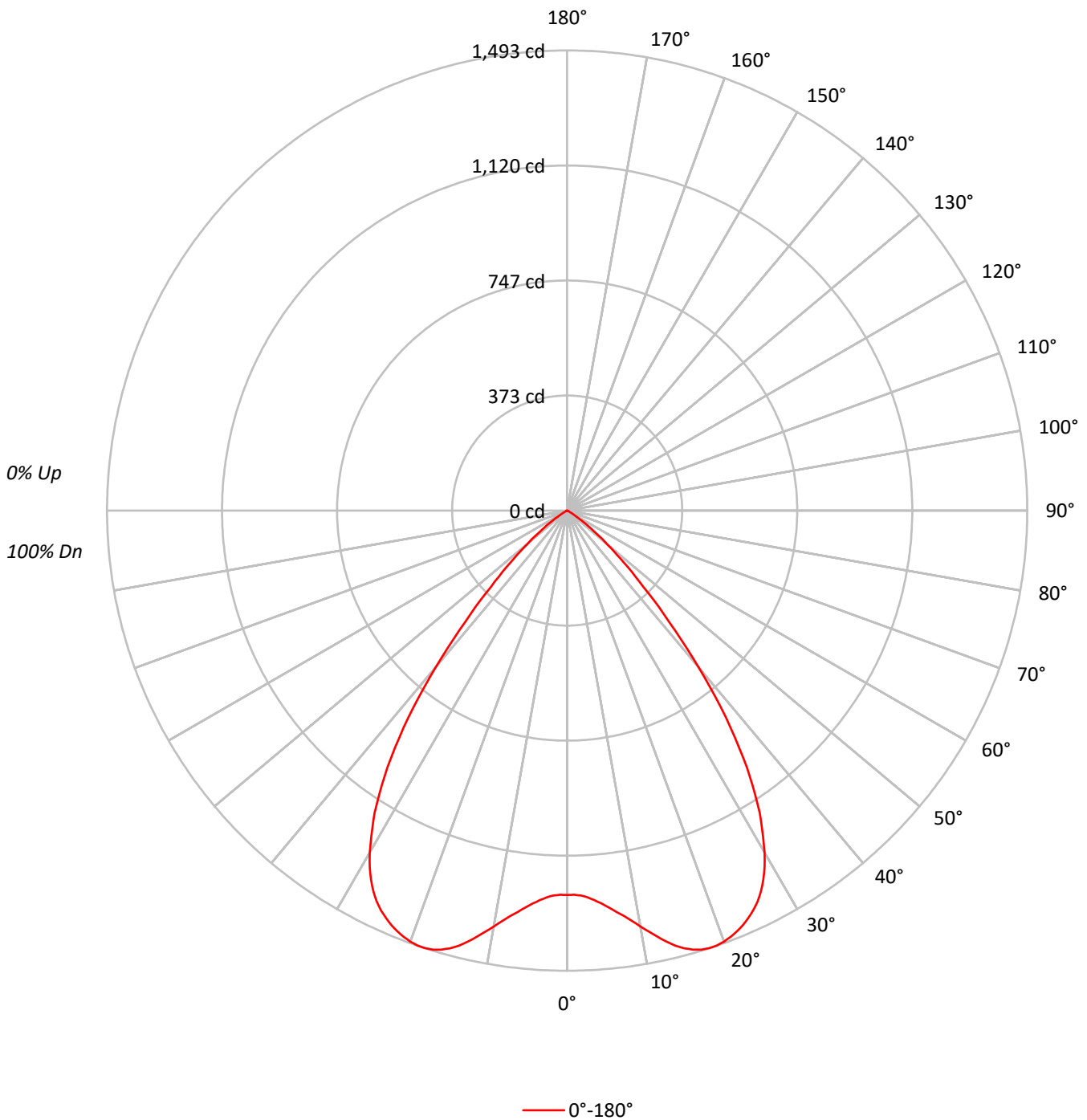
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	38465
5°	39603
10°	42904
15°	46941
20°	48836
25°	48658
30°	45641
35°	38273
40°	26648
45°	15263
50°	8194
55°	3382
60°	839
65°	219
70°	108
75°	71
80°	107
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	5.8
10°-20°	414.4	19.1
20°-30°	652.1	30.1
30°-40°	620.3	28.6
40°-50°	286.0	13.2
50°-60°	65.0	3.0
60°-70°	4.3	0.2
70°-80°	0.9	0.0
80°-90°	0.1	0.0
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°	1191.6	55.0
0°-40°	1811.9	83.6
0°-60°	2162.8	99.8
0°-90°	2168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2168.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1247	
5°	1279	125
15°	1470	414
25°	1430	652
35°	1017	620
45°	350	286
55°	63	65
65°	3	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1247.4
1°	1246.8
2°	1249.2
3°	1256.3
4°	1267.0
5°	1279.4
6°	1294.9
7°	1311.5
8°	1328.7
9°	1348.8
10°	1370.2
11°	1391.5
12°	1414.1
13°	1435.4
14°	1455.0
15°	1470.4
16°	1481.7
17°	1489.4
18°	1493.0
19°	1492.4
20°	1488.2
21°	1481.1
22°	1472.2
23°	1460.3
24°	1446.7
25°	1430.1
26°	1410.5
27°	1385.6
28°	1355.9
29°	1321.5
30°	1281.8
32.5°	1162.6
35°	1016.7
37.5°	847.0
40°	662.0
42.5°	489.4
45°	350.0
47.5°	247.9
50°	170.8
52.5°	109.1
55°	62.9
57.5°	31.4
60°	13.6
62.5°	5.3
65°	3.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	1.8
70°	1.2
72.5°	1.2
75°	0.6
77.5°	0.6
80°	0.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)