

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: P244400

Luminaire Tested: **LSR8B20D010 EC8B20850 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20850 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2160.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

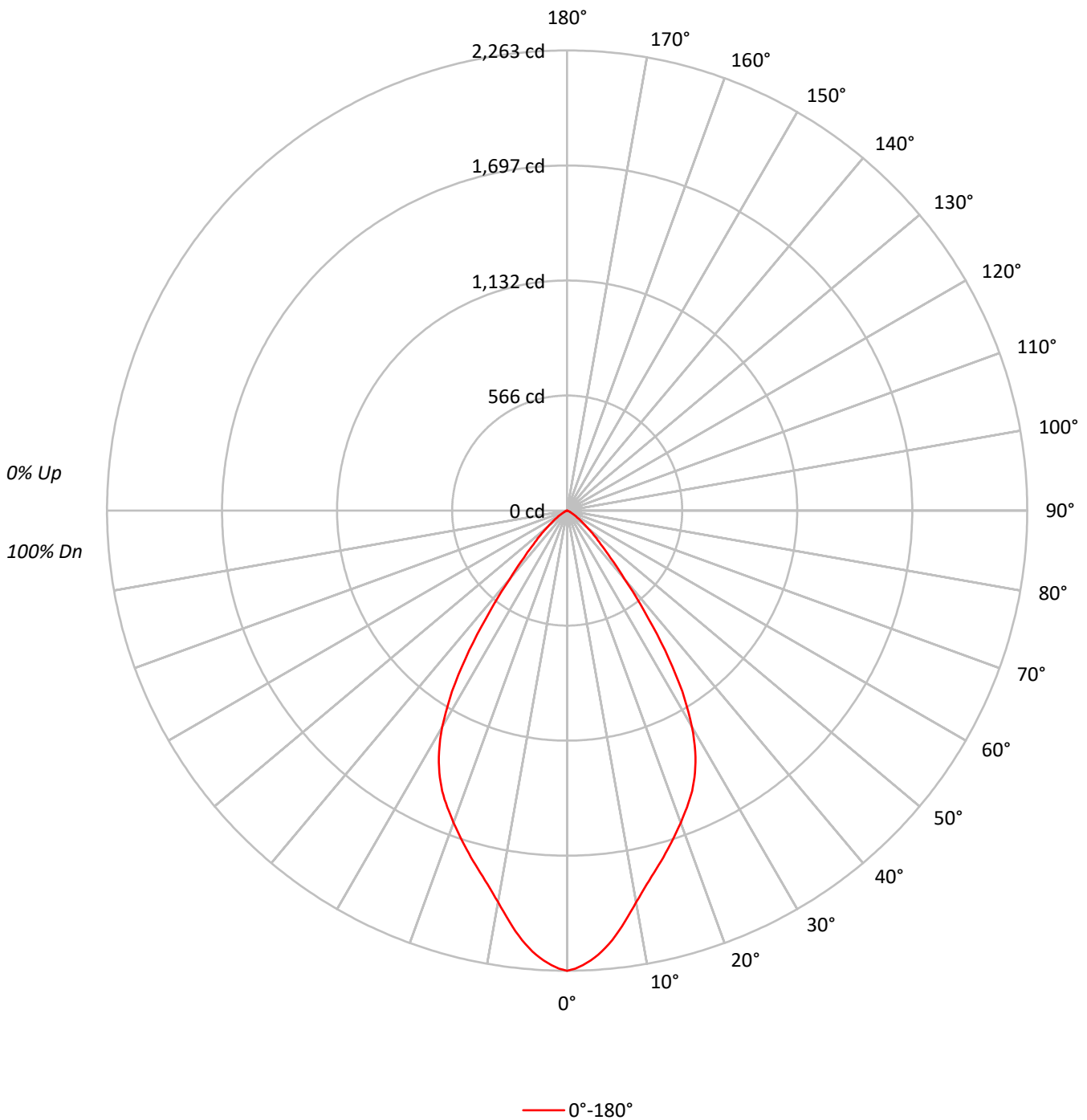
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56	51	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	69795
5°	66836
10°	61240
15°	56985
20°	53597
25°	50145
30°	43732
35°	31606
40°	17720
45°	10196
50°	6236
55°	3554
60°	1844
65°	941
70°	514
75°	310
80°	178
85°	177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.4	9.2
10°-20°	501.8	23.2
20°-30°	669.5	31.0
30°-40°	516.1	23.9
40°-50°	192.4	8.9
50°-60°	62.9	2.9
60°-70°	14.5	0.7
70°-80°	2.9	0.1
80°-90°	0.4	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°	1370.7	63.5
0°-40°	1886.8	87.4
0°-60°	2142.1	99.2
0°-90°	2160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2160.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2263	
5°	2159	199
15°	1785	502
25°	1474	670
35°	840	516
45°	234	192
55°	66	63
65°	13	15
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2263.4
1°	2253.6
2°	2237.1
3°	2215.9
4°	2190.1
5°	2159.2
6°	2124.1
7°	2083.8
8°	2041.0
9°	1996.6
10°	1955.8
11°	1916.6
12°	1880.0
13°	1846.4
14°	1815.5
15°	1785.0
16°	1754.1
17°	1724.1
18°	1693.2
19°	1662.7
20°	1633.3
21°	1602.8
22°	1573.4
23°	1542.5
24°	1510.0
25°	1473.8
26°	1434.1
27°	1390.2
28°	1341.7
29°	1287.5
30°	1228.2
32.5°	1054.3
35°	839.6
37.5°	621.8
40°	440.2
42.5°	315.3
45°	233.8
47.5°	176.0
50°	130.0
52.5°	92.9
55°	66.1
57.5°	45.4
60°	29.9
62.5°	19.6
65°	12.9



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	8.8
70°	5.7
72.5°	3.6
75°	2.6
77.5°	1.5
80°	1.0
82.5°	0.5
85°	0.5
87.5°	0.0
90°	0.0

(END OF REPORT)