

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: P244424

Luminaire Tested: **LSR8B20D010 EC8B20940 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244424
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 EC8B20940 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1900.0 lumens
Efficiency: N/A
Efficacy: 89.2 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

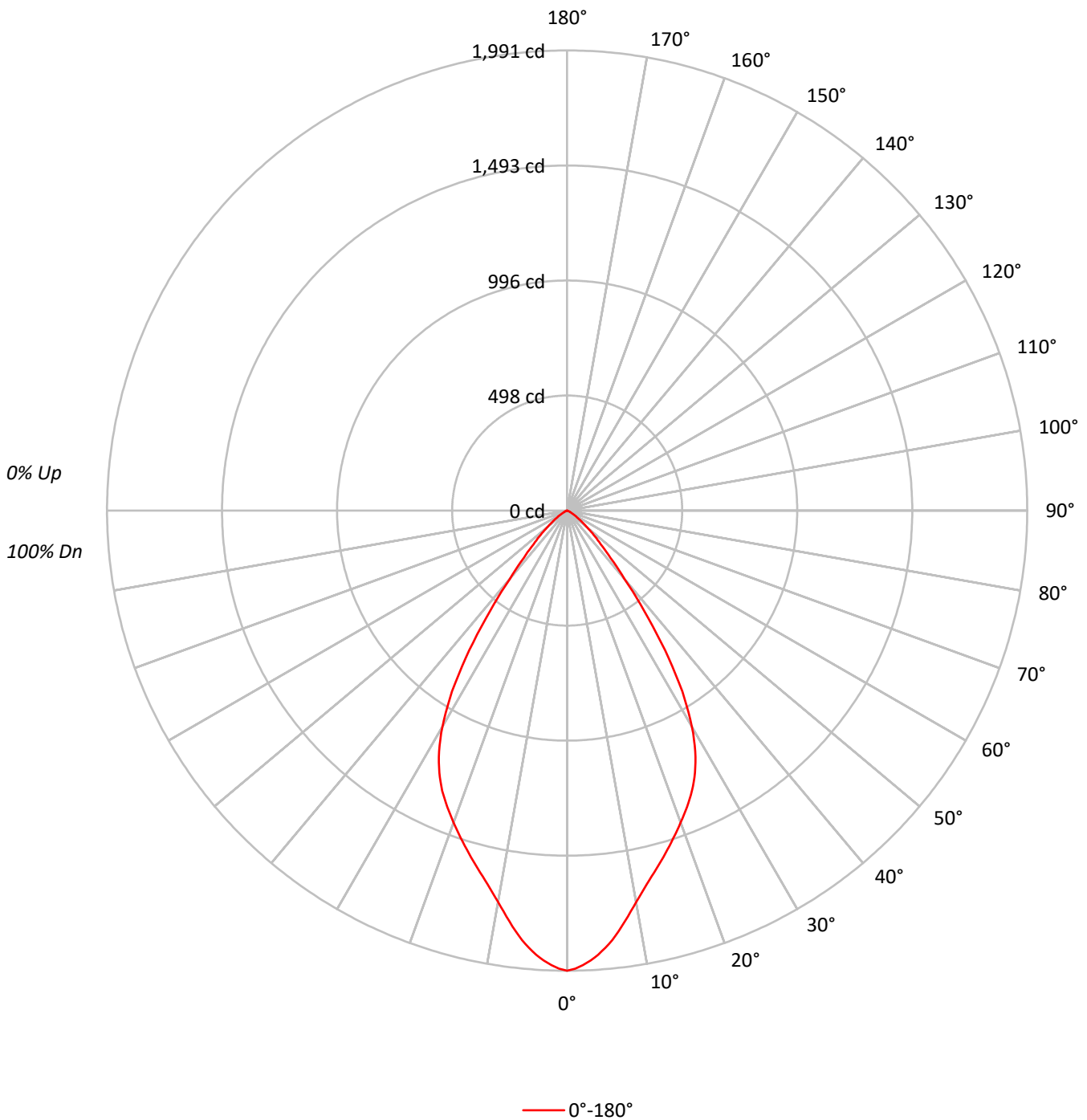
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	61392
5°	58791
10°	53869
15°	50127
20°	47146
25°	44109
30°	38469
35°	27800
40°	15586
45°	8966
50°	5488
55°	3124
60°	1622
65°	825
70°	451
75°	274
80°	160
85°	177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.4	9.2
10°-20°	441.4	23.2
20°-30°	589.0	31.0
30°-40°	454.0	23.9
40°-50°	169.3	8.9
50°-60°	55.3	2.9
60°-70°	12.7	0.7
70°-80°	2.6	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°	1205.7	63.5
0°-40°	1659.7	87.4
0°-60°	1884.3	99.2
0°-90°	1900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1900.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1991	
5°	1899	175
15°	1570	441
25°	1296	589
35°	738	454
45°	206	169
55°	58	55
65°	11	13
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1990.9
1°	1982.3
2°	1967.8
3°	1949.2
4°	1926.5
5°	1899.3
6°	1868.4
7°	1833.0
8°	1795.3
9°	1756.3
10°	1720.4
11°	1685.9
12°	1653.7
13°	1624.2
14°	1596.9
15°	1570.2
16°	1542.9
17°	1516.6
18°	1489.4
19°	1462.6
20°	1436.7
21°	1409.9
22°	1384.0
23°	1356.8
24°	1328.2
25°	1296.4
26°	1261.5
27°	1222.9
28°	1180.2
29°	1132.6
30°	1080.4
32.5°	927.4
35°	738.5
37.5°	547.0
40°	387.2
42.5°	277.4
45°	205.6
47.5°	154.8
50°	114.4
52.5°	81.7
55°	58.1
57.5°	39.9
60°	26.3
62.5°	17.2
65°	11.3



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	7.7
70°	5.0
72.5°	3.2
75°	2.3
77.5°	1.4
80°	0.9
82.5°	0.5
85°	0.5
87.5°	0.0
90°	0.0

(END OF REPORT)