

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: P244304

Luminaire Tested: **LSR8B20D010 EC8B20827 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20827 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1887.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

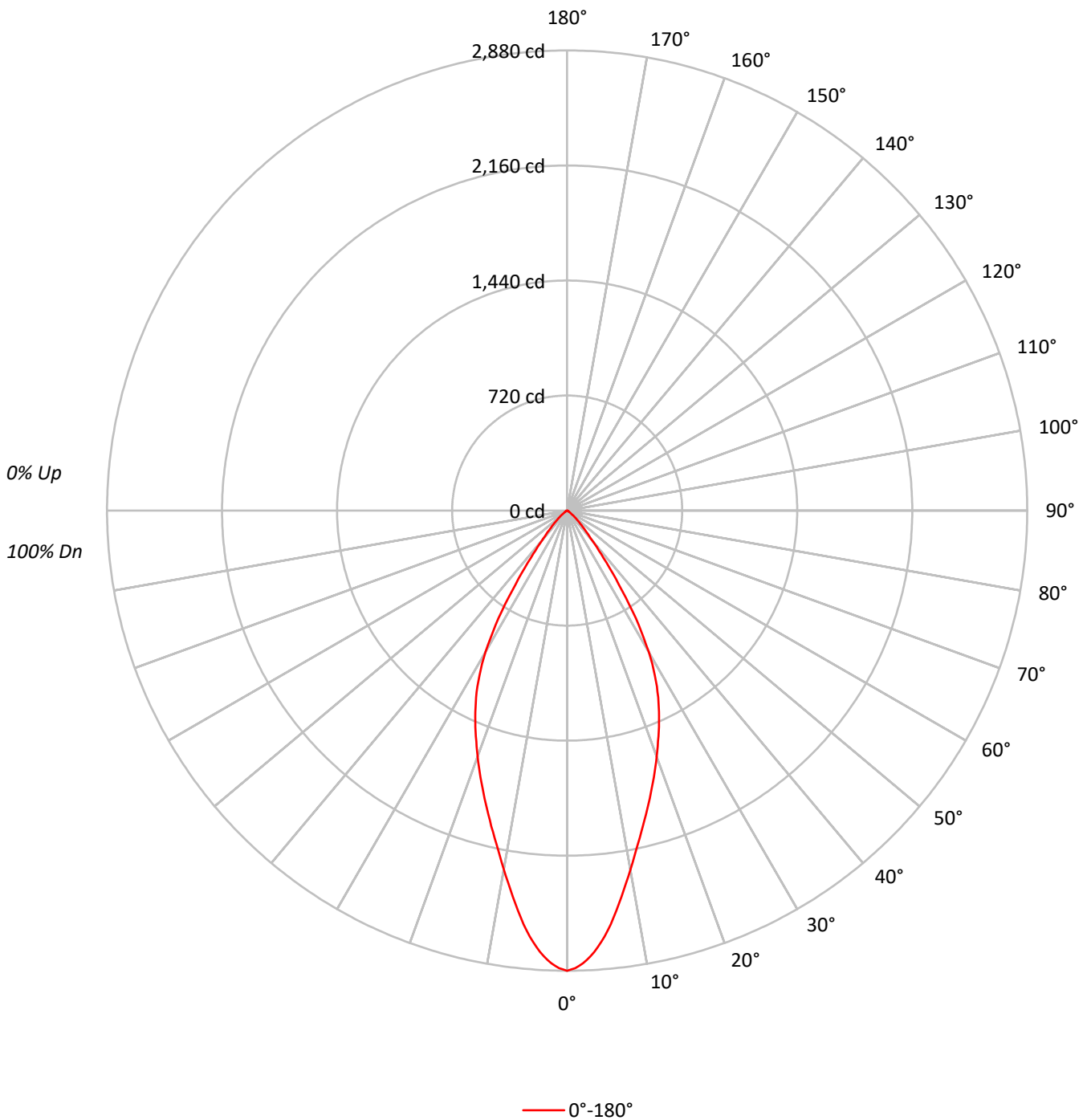
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	88824
5°	82852
10°	71416
15°	61808
20°	53768
25°	46208
30°	36308
35°	21182
40°	9774
45°	5059
50°	2538
55°	1231
60°	629
65°	372
70°	171
75°	155
80°	107
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	12.8
10°-20°	541.3	28.7
20°-30°	615.5	32.6
30°-40°	361.5	19.2
40°-50°	97.0	5.1
50°-60°	23.0	1.2
60°-70°	5.2	0.3
70°-80°	1.2	0.1
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°	1399.0	74.1
0°-40°	1760.5	93.3
0°-60°	1880.5	99.7
0°-90°	1887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1887.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2880	
5°	2677	242
15°	1936	541
25°	1358	615
35°	563	361
45°	116	97
55°	23	23
65°	5	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2880.5
1°	2864.6
2°	2835.3
3°	2793.9
4°	2740.3
5°	2676.6
6°	2604.6
7°	2523.0
8°	2441.4
9°	2359.2
10°	2280.8
11°	2204.4
12°	2132.4
13°	2065.4
14°	1998.5
15°	1936.1
16°	1874.9
17°	1814.3
18°	1755.7
19°	1696.4
20°	1638.5
21°	1580.5
22°	1525.0
23°	1470.2
24°	1414.1
25°	1358.1
26°	1300.1
27°	1237.0
28°	1170.7
29°	1098.0
30°	1019.7
32.5°	799.8
35°	562.7
37.5°	370.9
40°	242.8
42.5°	167.6
45°	116.0
47.5°	79.7
50°	52.9
52.5°	34.4
55°	22.9
57.5°	15.3
60°	10.2
62.5°	7.0
65°	5.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	3.2
70°	1.9
72.5°	1.3
75°	1.3
77.5°	0.6
80°	0.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)