

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: P244238

Luminaire Tested: **LSR8B20D010 EC8B20830 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244238  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20830 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2096.9 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

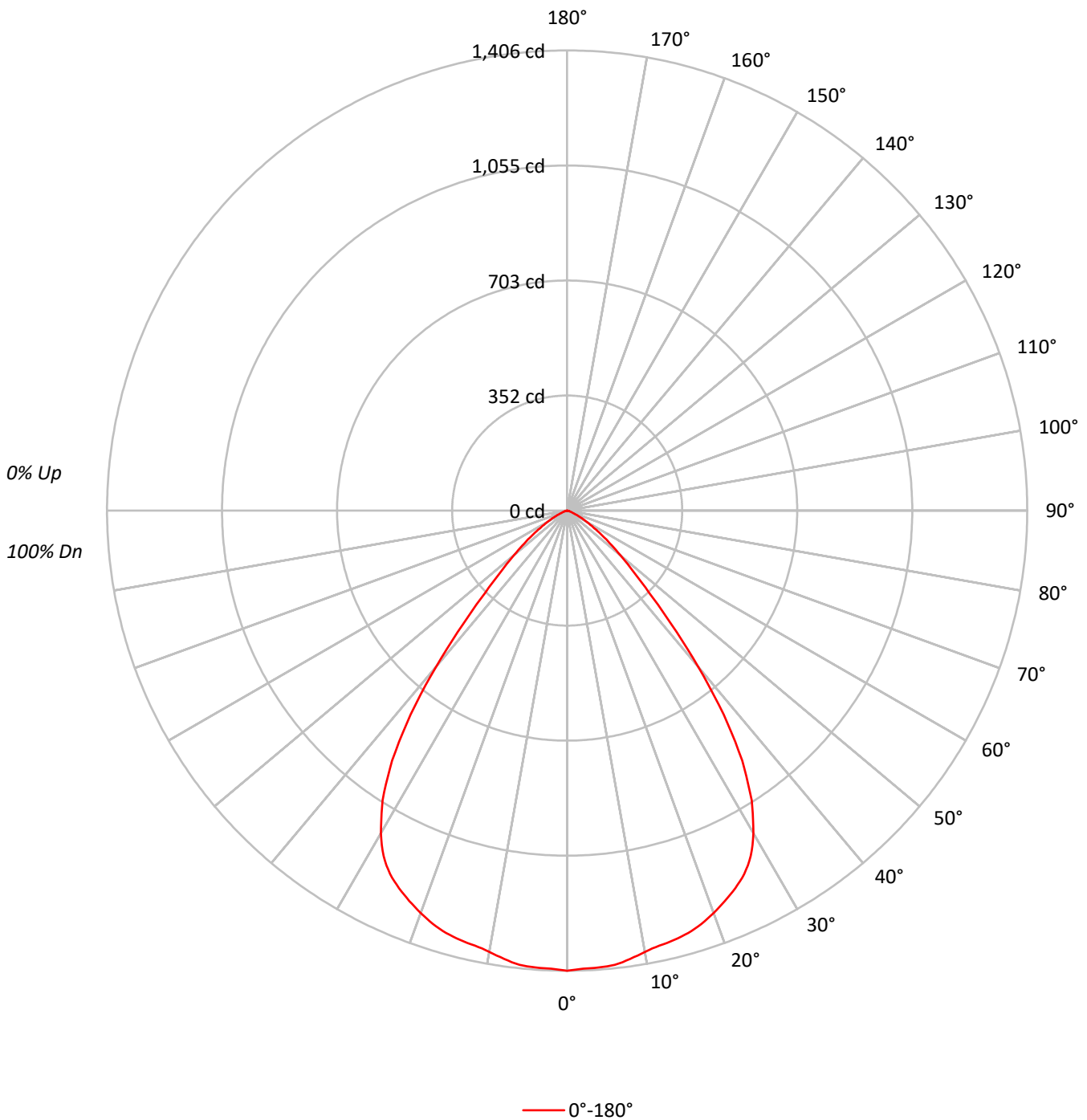
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	71	77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	63	62
6	82	71	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	43359
5°	43261
10°	42872
15°	43030
20°	42939
25°	42523
30°	40528
35°	35092
40°	25030
45°	15381
50°	10146
55°	6715
60°	4299
65°	2342
70°	1145
75°	572
80°	320
85°	212



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.5	6.3
10°-20°	380.2	18.1
20°-30°	572.1	27.3
30°-40°	566.5	27.0
40°-50°	287.8	13.7
50°-60°	115.9	5.5
60°-70°	35.1	1.7
70°-80°	6.0	0.3
80°-90°	0.7	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°	1084.8	51.7
0°-40°	1651.3	78.7
0°-60°	2055.0	98.0
0°-90°	2096.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2096.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1406	
5°	1398	132
15°	1348	380
25°	1250	572
35°	932	566
45°	353	288
55°	125	116
65°	32	35
75°	5	6
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1406.1
1°	1403.1
2°	1400.7
3°	1400.1
4°	1399.5
5°	1397.6
6°	1395.2
7°	1390.4
8°	1383.1
9°	1376.4
10°	1369.2
11°	1363.1
12°	1358.8
13°	1355.8
14°	1352.2
15°	1347.9
16°	1342.5
17°	1335.8
18°	1327.9
19°	1318.8
20°	1308.5
21°	1297.6
22°	1286.7
23°	1275.2
24°	1263.1
25°	1249.8
26°	1235.2
27°	1216.4
28°	1194.6
29°	1168.5
30°	1138.2
32.5°	1049.7
35°	932.2
37.5°	785.5
40°	621.8
42.5°	469.7
45°	352.7
47.5°	269.7
50°	211.5
52.5°	164.2
55°	124.9
57.5°	92.7
60°	69.7
62.5°	49.7
65°	32.1



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	20.0
70°	12.7
72.5°	7.9
75°	4.8
77.5°	3.0
80°	1.8
82.5°	1.2
85°	0.6
87.5°	0.0
90°	0.0

(END OF REPORT)