

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: P244232

Luminaire Tested: **LSR8B20D010 EC8B20827 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244232  
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 EC8B20827 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 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: 2045.0 lumens  
Efficiency: N/A  
Efficacy: 96.0 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

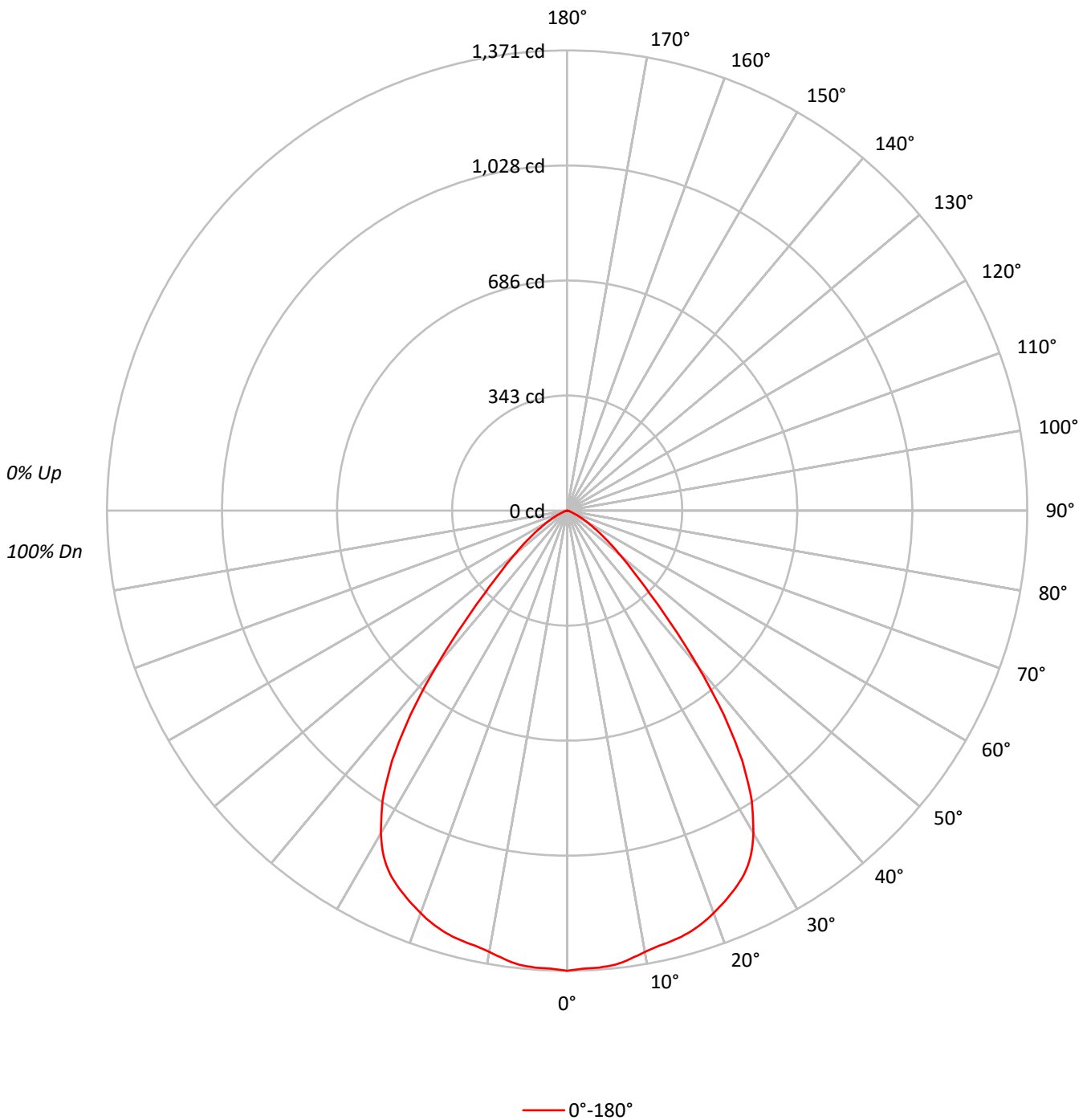
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	42286
5°	42190
10°	41808
15°	41964
20°	41876
25°	41469
30°	39523
35°	34219
40°	24410
45°	15002
50°	9897
55°	6548
60°	4194
65°	2284
70°	1118
75°	560
80°	320
85°	212



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.2	6.3
10°-20°	370.8	18.1
20°-30°	558.0	27.3
30°-40°	552.4	27.0
40°-50°	280.7	13.7
50°-60°	113.1	5.5
60°-70°	34.3	1.7
70°-80°	5.9	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°	1058.0	51.7
0°-40°	1610.3	78.7
0°-60°	2004.1	98.0
0°-90°	2045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2045.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1371	
5°	1363	129
15°	1314	371
25°	1219	558
35°	909	552
45°	344	281
55°	122	113
65°	31	34
75°	5	6
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1371.3
1°	1368.3
2°	1365.9
3°	1365.3
4°	1364.8
5°	1363.0
6°	1360.6
7°	1355.9
8°	1348.8
9°	1342.3
10°	1335.2
11°	1329.3
12°	1325.2
13°	1322.2
14°	1318.6
15°	1314.5
16°	1309.2
17°	1302.7
18°	1295.0
19°	1286.1
20°	1276.1
21°	1265.5
22°	1254.8
23°	1243.6
24°	1231.8
25°	1218.8
26°	1204.6
27°	1186.3
28°	1165.0
29°	1139.6
30°	1110.0
32.5°	1023.7
35°	909.0
37.5°	766.0
40°	606.4
42.5°	458.1
45°	344.0
47.5°	263.0
50°	206.3
52.5°	160.2
55°	121.8
57.5°	90.4
60°	68.0
62.5°	48.5
65°	31.3



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	19.5
70°	12.4
72.5°	7.7
75°	4.7
77.5°	3.0
80°	1.8
82.5°	1.2
85°	0.6
87.5°	0.0
90°	0.0

(END OF REPORT)