

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: P244244

Luminaire Tested: **LSR8B20D010 EC8B20835 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244244  
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 EC8B20835 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2180.1 lumens  
Efficiency: N/A  
Efficacy: 102.4 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

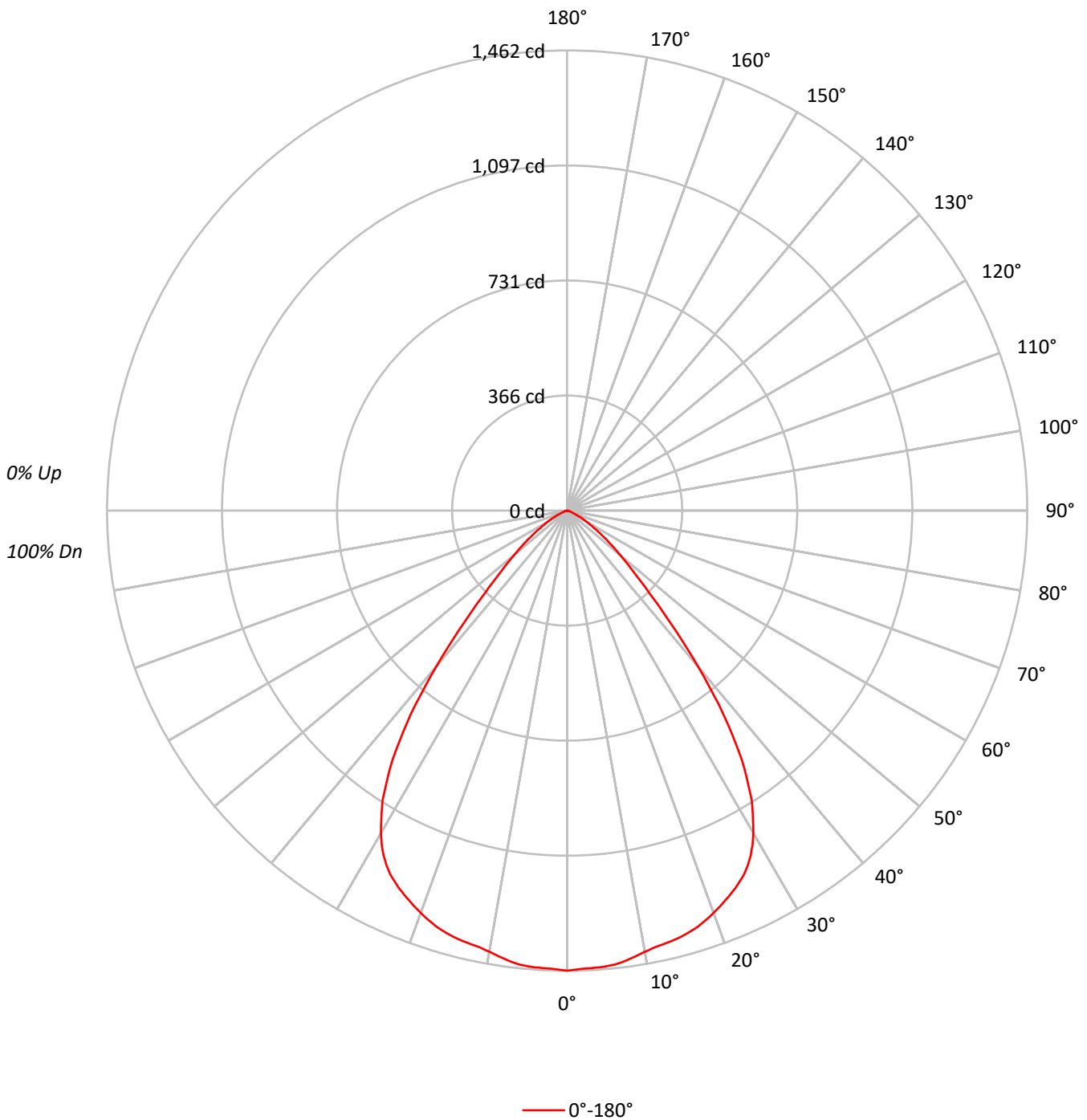
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	45077
5°	44976
10°	44566
15°	44735
20°	44639
25°	44204
30°	42133
35°	36481
40°	26024
45°	15991
50°	10549
55°	6978
60°	4471
65°	2437
70°	1190
75°	596
80°	337
85°	212



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.7	6.3
10°-20°	395.2	18.1
20°-30°	594.8	27.3
30°-40°	588.9	27.0
40°-50°	299.2	13.7
50°-60°	120.6	5.5
60°-70°	36.5	1.7
70°-80°	6.3	0.3
80°-90°	0.8	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°	1127.8	51.7
0°-40°	1716.7	78.7
0°-60°	2136.5	98.0
0°-90°	2180.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2180.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1462	
5°	1453	138
15°	1401	395
25°	1299	595
35°	969	589
45°	367	299
55°	130	121
65°	33	37
75°	5	6
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1461.8
1°	1458.6
2°	1456.1
3°	1455.5
4°	1454.8
5°	1453.0
6°	1450.4
7°	1445.4
8°	1437.8
9°	1430.9
10°	1423.3
11°	1417.0
12°	1412.6
13°	1409.5
14°	1405.7
15°	1401.3
16°	1395.6
17°	1388.7
18°	1380.5
19°	1371.0
20°	1360.3
21°	1349.0
22°	1337.7
23°	1325.7
24°	1313.1
25°	1299.2
26°	1284.1
27°	1264.6
28°	1241.9
29°	1214.8
30°	1183.3
32.5°	1091.3
35°	969.1
37.5°	816.6
40°	646.5
42.5°	488.3
45°	366.7
47.5°	280.4
50°	219.9
52.5°	170.8
55°	129.8
57.5°	96.4
60°	72.5
62.5°	51.7
65°	33.4



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	20.8
70°	13.2
72.5°	8.2
75°	5.0
77.5°	3.2
80°	1.9
82.5°	1.3
85°	0.6
87.5°	0.0
90°	0.0

(END OF REPORT)