

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: P243812

Luminaire Tested: **LSR8B20D010 EC8B20835 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20835 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2311.0 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

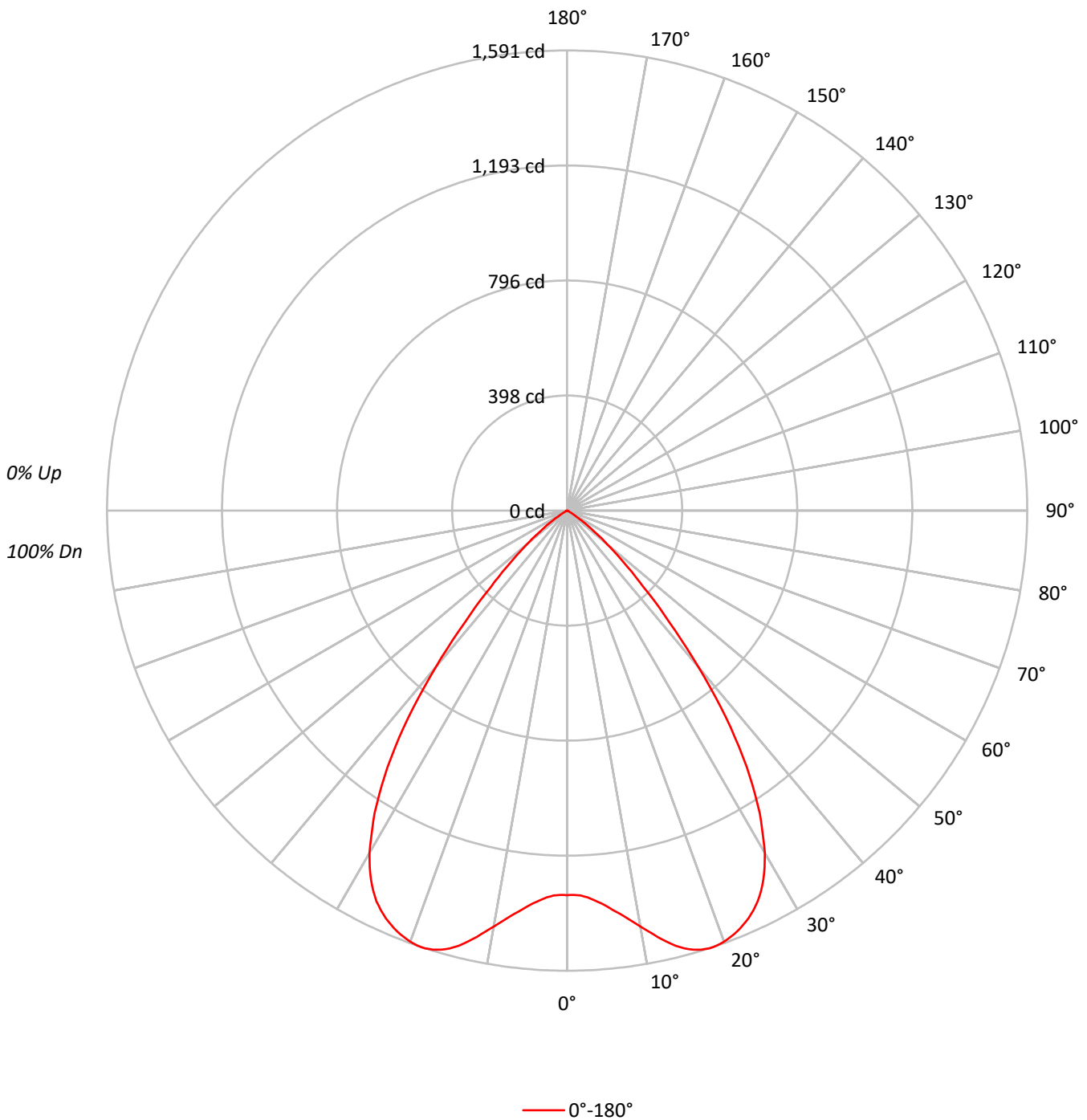
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42

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

	0°
0°	41003
5°	42215
10°	45734
15°	50038
20°	52058
25°	51866
30°	48649
35°	40795
40°	28403
45°	16266
50°	8736
55°	3602
60°	894
65°	233
70°	117
75°	71
80°	107
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.3	5.8
10°-20°	441.8	19.1
20°-30°	695.1	30.1
30°-40°	661.2	28.6
40°-50°	304.8	13.2
50°-60°	69.2	3.0
60°-70°	4.6	0.2
70°-80°	0.9	0.0
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°	1270.2	55.0
0°-40°	1931.4	83.6
0°-60°	2305.4	99.8
0°-90°	2311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2311.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1330	
5°	1364	133
15°	1567	442
25°	1524	695
35°	1084	661
45°	373	305
55°	67	69
65°	3	5
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1329.7
1°	1329.0
2°	1331.6
3°	1339.2
4°	1350.5
5°	1363.8
6°	1380.3
7°	1398.0
8°	1416.3
9°	1437.8
10°	1460.6
11°	1483.3
12°	1507.3
13°	1530.1
14°	1551.0
15°	1567.4
16°	1579.4
17°	1587.6
18°	1591.4
19°	1590.8
20°	1586.4
21°	1578.8
22°	1569.3
23°	1556.7
24°	1542.1
25°	1524.4
26°	1503.6
27°	1477.0
28°	1445.4
29°	1408.7
30°	1366.3
32.5°	1239.3
35°	1083.7
37.5°	902.9
40°	705.6
42.5°	521.6
45°	373.0
47.5°	264.3
50°	182.1
52.5°	116.3
55°	67.0
57.5°	33.5
60°	14.5
62.5°	5.7
65°	3.2



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)