

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: P244394

Luminaire Tested: **LSR8B20D010 EC8B20840 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244394  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20840 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2119.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

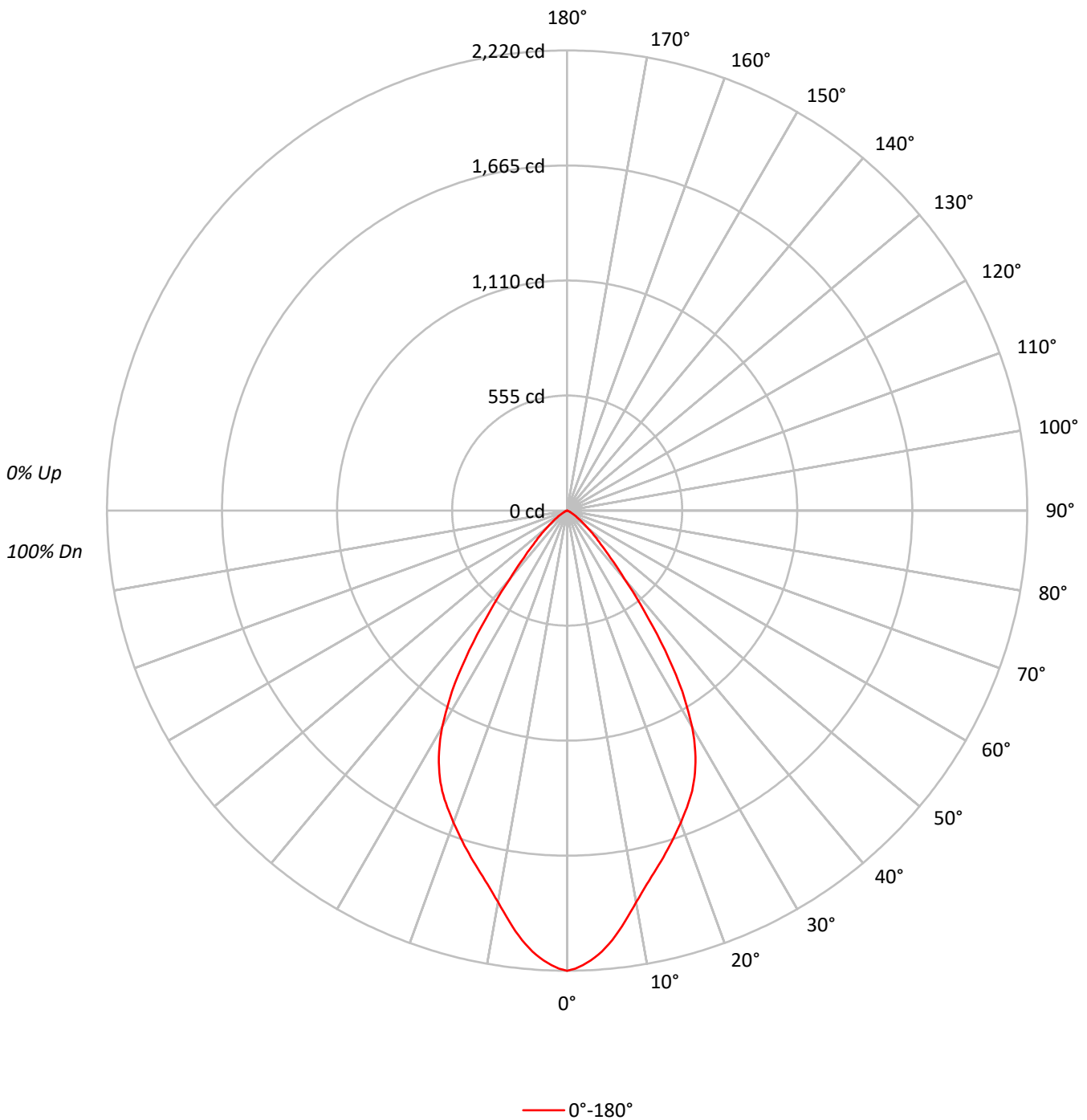
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47

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

	0°
0°	68469
5°	65567
10°	60078
15°	55902
20°	52580
25°	49195
30°	42903
35°	31008
40°	17382
45°	10000
50°	6121
55°	3484
60°	1813
65°	927
70°	505
75°	298
80°	178
85°	177



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.6	9.2
10°-20°	492.3	23.2
20°-30°	656.8	31.0
30°-40°	506.3	23.9
40°-50°	188.8	8.9
50°-60°	61.8	2.9
60°-70°	14.2	0.7
70°-80°	2.8	0.1
80°-90°	0.4	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°	1344.7	63.5
0°-40°	1851.0	87.4
0°-60°	2101.5	99.2
0°-90°	2119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2119.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2220	
5°	2118	196
15°	1751	492
25°	1446	657
35°	824	506
45°	229	189
55°	65	62
65°	13	14
75°	2	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2220.4
1°	2210.8
2°	2194.6
3°	2173.9
4°	2148.5
5°	2118.2
6°	2083.7
7°	2044.3
8°	2002.2
9°	1958.7
10°	1918.7
11°	1880.2
12°	1844.3
13°	1811.4
14°	1781.0
15°	1751.1
16°	1720.8
17°	1691.4
18°	1661.0
19°	1631.2
20°	1602.3
21°	1572.4
22°	1543.6
23°	1513.2
24°	1481.3
25°	1445.9
26°	1406.9
27°	1363.8
28°	1316.3
29°	1263.1
30°	1204.9
32.5°	1034.3
35°	823.7
37.5°	610.0
40°	431.8
42.5°	309.3
45°	229.3
47.5°	172.6
50°	127.6
52.5°	91.1
55°	64.8
57.5°	44.6
60°	29.4
62.5°	19.2
65°	12.7



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	8.6
70°	5.6
72.5°	3.5
75°	2.5
77.5°	1.5
80°	1.0
82.5°	0.5
85°	0.5
87.5°	0.0
90°	0.0

(END OF REPORT)