

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: P244886

Luminaire Tested: **LSR8B20D010 EC8B20830 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244886  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-14)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20830 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2242.9 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

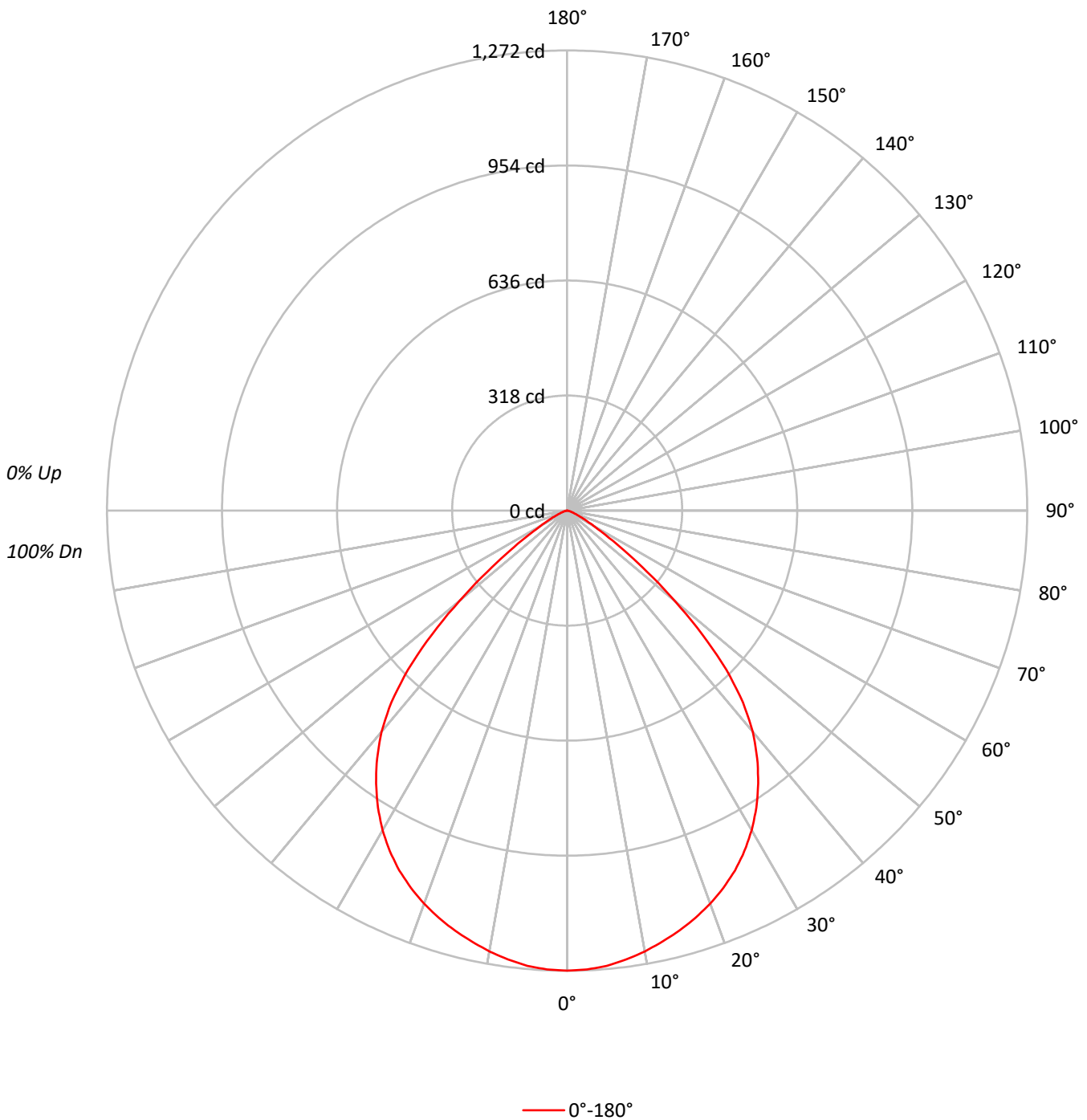
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	74	67	62	83	73	67	61	71	65	61	70	64	60	68	63	60	58
6	79	68	61	55	77	67	60	55	66	59	55	64	58	54	63	58	54	52
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

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

	0°
0°	39215
5°	39095
10°	38742
15°	38360
20°	37948
25°	37348
30°	36322
35°	34667
40°	32127
45°	27125
50°	18609
55°	10263
60°	5162
65°	2904
70°	1578
75°	1120
80°	710
85°	460



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.7	5.3
10°-20°	338.9	15.1
20°-30°	504.5	22.5
30°-40°	573.1	25.6
40°-50°	468.4	20.9
50°-60°	183.6	8.2
60°-70°	42.8	1.9
70°-80°	10.3	0.5
80°-90°	1.6	0.1
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°	963.1	42.9
0°-40°	1536.2	68.5
0°-60°	2188.2	97.6
0°-90°	2242.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2242.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1272	
5°	1263	120
15°	1202	339
25°	1098	505
35°	921	573
45°	622	468
55°	191	184
65°	40	43
75°	9	10
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1271.7
2.5°	1269.7
5°	1263.0
7.5°	1251.5
10°	1237.3
12.5°	1219.8
15°	1201.6
17.5°	1180.0
20°	1156.4
22.5°	1128.7
25°	1097.7
27.5°	1061.3
30°	1020.1
32.5°	973.5
35°	920.9
37.5°	862.9
40°	798.1
42.5°	719.9
45°	622.0
47.5°	507.3
50°	387.9
52.5°	278.6
55°	190.9
57.5°	124.8
60°	83.7
62.5°	57.3
65°	39.8
67.5°	26.3
70°	17.5
72.5°	12.1
75°	9.4
77.5°	6.7
80°	4.0
82.5°	2.0
85°	1.3
87.5°	0.7
90°	0.0

(END OF REPORT)