

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: P245534

Luminaire Tested: **LSR8B20D010 EC8B20830 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245534  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-46)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20830 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1882.0 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

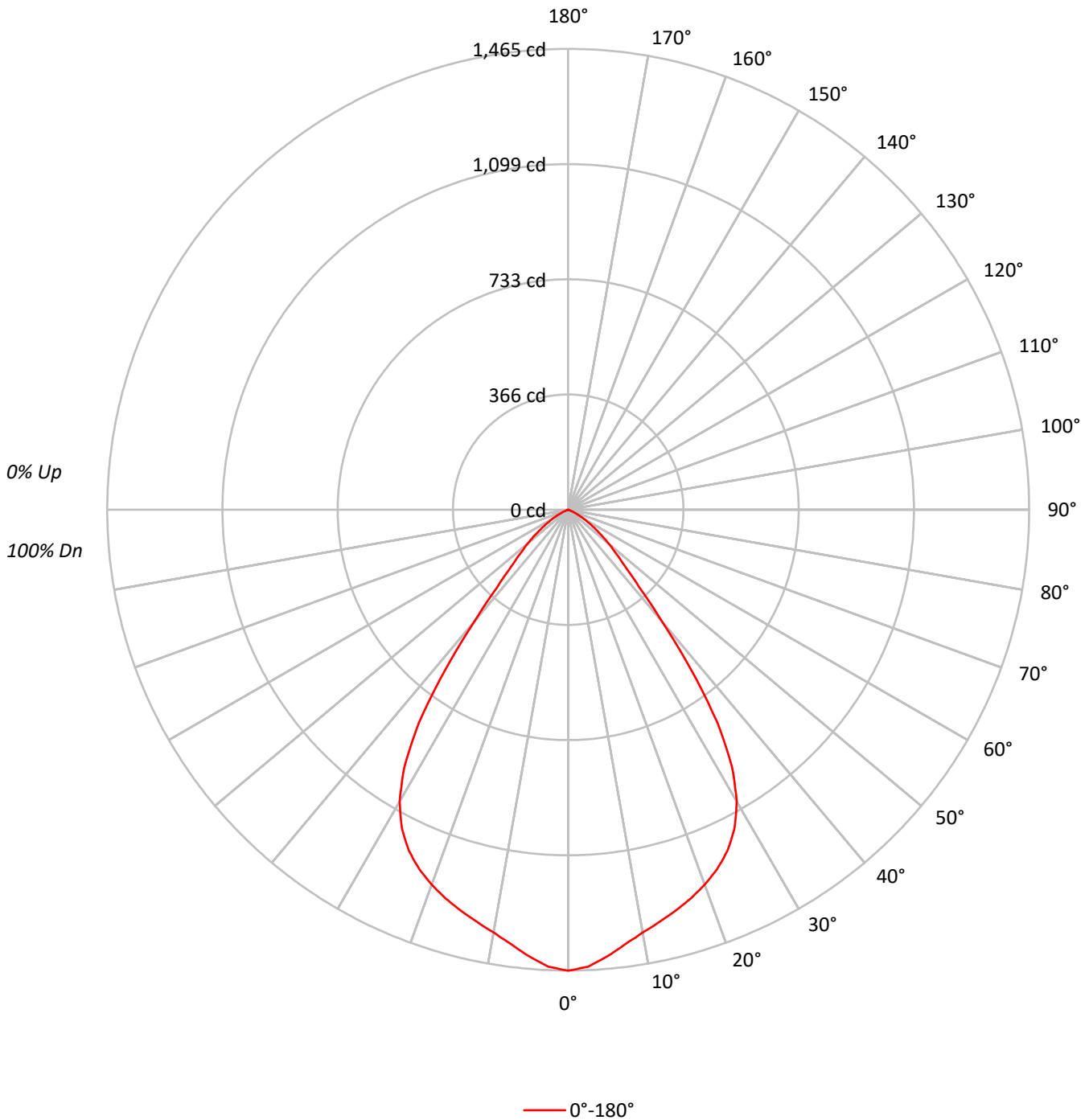
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64
6	83	73	66	61	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	65	59	56	63	59	55	54
8	74	63	56	52	73	63	56	52	61	56	51	60	55	51	59	55	51	49
9	70	59	52	48	69	58	52	48	57	52	48	57	51	47	56	51	47	46
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43

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

	0°
0°	45188
5°	44119
10°	42738
15°	42121
20°	41623
25°	40730
30°	38149
35°	31151
40°	18597
45°	11168
50°	8050
55°	5478
60°	3435
65°	1685
70°	433
75°	167
80°	124
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.1	7.1
10°-20°	372.3	19.8
20°-30°	546.8	29.1
30°-40°	495.7	26.3
40°-50°	212.2	11.3
50°-60°	93.9	5.0
60°-70°	25.0	1.3
70°-80°	2.0	0.1
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°	1053.2	56.0
0°-40°	1548.9	82.3
0°-60°	1854.9	98.6
0°-90°	1882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1882.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1465	
5°	1425	134
15°	1319	372
25°	1197	547
35°	828	496
45°	256	212
55°	102	94
65°	23	25
75°	1	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1465.4
2.5°	1453.9
5°	1425.3
7.5°	1392.7
10°	1364.9
12.5°	1341.8
15°	1319.4
17.5°	1295.6
20°	1268.4
22.5°	1236.5
25°	1197.1
27.5°	1144.1
30°	1071.4
32.5°	969.5
35°	827.5
37.5°	641.3
40°	462.0
42.5°	333.6
45°	256.1
47.5°	206.5
50°	167.8
52.5°	133.2
55°	101.9
57.5°	76.1
60°	55.7
62.5°	38.7
65°	23.1
67.5°	10.2
70°	4.8
72.5°	2.7
75°	1.4
77.5°	0.7
80°	0.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)