

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: P245744

Luminaire Tested: **LD8B20D010 ER8B20827 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245744  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-16)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B20D010 ER8B20827 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2033.1 lumens  
Efficiency: N/A  
Efficacy: 95.4 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

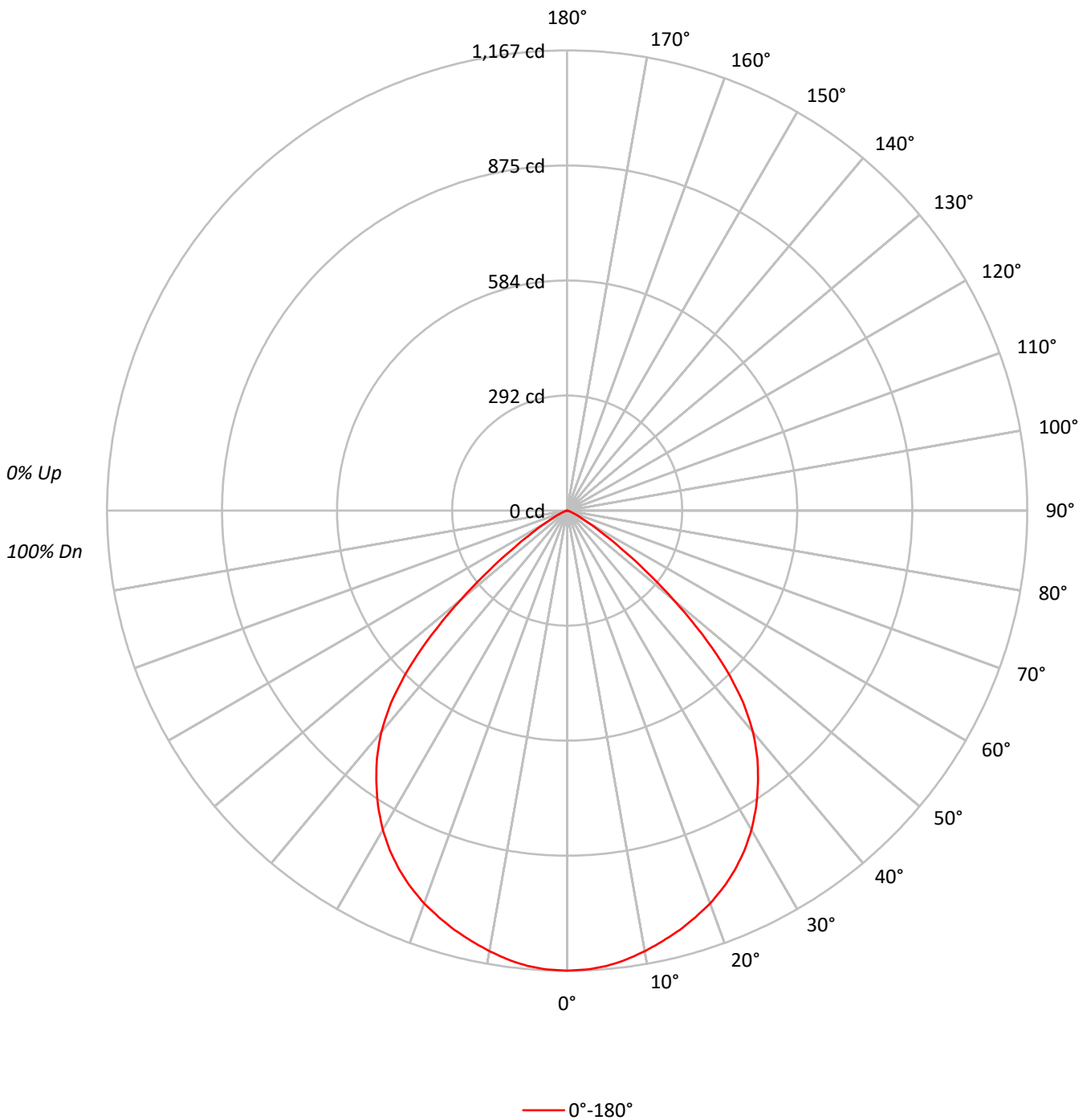
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	103	100	98		99	97	95		95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	69		76	72	68		74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61		70	65	61		68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55		64	59	55		63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50		59	54	50		58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45		55	49	45		54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41		51	45	41		50	45	41	40
10	62	50	43	38	60	49	43	38	48	42	38		48	42	38		47	42	38	36

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

	0°
0°	35983
5°	35876
10°	35520
15°	35158
20°	34788
25°	34218
30°	33282
35°	31768
40°	29534
45°	24940
50°	16930
55°	8844
60°	3972
65°	1934
70°	775
75°	477
80°	355
85°	248



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.8	5.4
10°-20°	310.6	15.3
20°-30°	462.4	22.7
30°-40°	525.6	25.9
40°-50°	429.8	21.1
50°-60°	160.2	7.9
60°-70°	29.3	1.4
70°-80°	4.6	0.2
80°-90°	0.7	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°	882.9	43.4
0°-40°	1408.5	69.3
0°-60°	1998.6	98.3
0°-90°	2033.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1167	
5°	1159	110
15°	1101	311
25°	1006	462
35°	844	526
45°	572	430
55°	164	160
65°	26	29
75°	4	5
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1166.9
2.5°	1164.9
5°	1159.0
7.5°	1148.4
10°	1134.4
12.5°	1118.5
15°	1101.3
17.5°	1081.4
20°	1060.1
22.5°	1034.9
25°	1005.7
27.5°	972.6
30°	934.7
32.5°	891.6
35°	843.9
37.5°	792.8
40°	733.7
42.5°	660.8
45°	571.9
47.5°	465.1
50°	352.9
52.5°	248.8
55°	164.5
57.5°	103.5
60°	64.4
62.5°	41.1
65°	26.5
67.5°	15.3
70°	8.6
72.5°	5.3
75°	4.0
77.5°	2.7
80°	2.0
82.5°	0.7
85°	0.7
87.5°	0.0
90°	0.0

(END OF REPORT)