

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: P244448

Luminaire Tested: **LSR8B20D010 EC8B20827 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244448  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-13)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20827 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2229.1 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

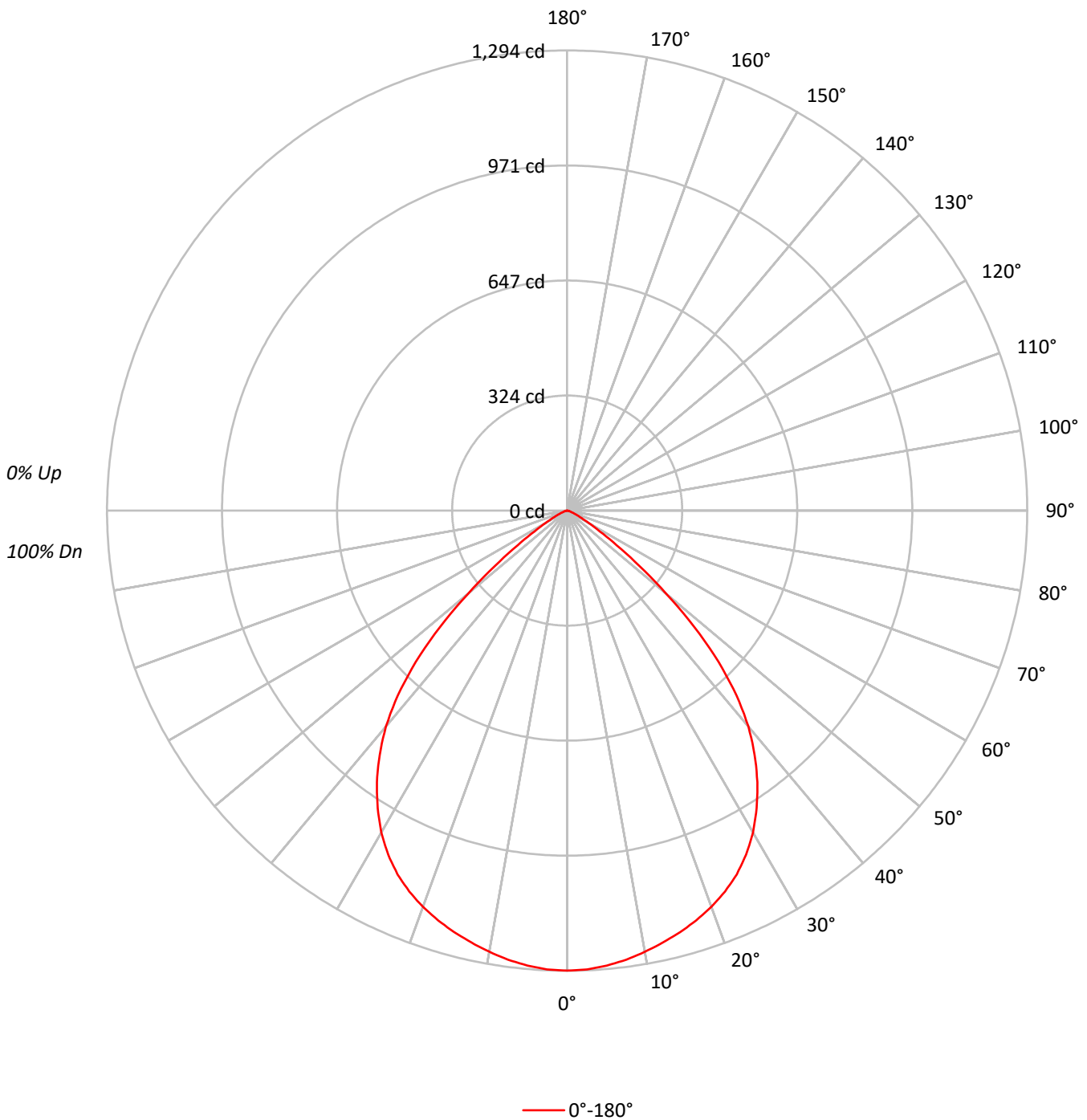
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	89	83	78	86	81	77		83	79	76		81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69		76	72	68		74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62		70	65	61		69	64	60	59
6	80	69	61	56	78	68	61	56	66	60	56		65	59	55		63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46		55	50	46		54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42		51	46	42		51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

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

	0°
0°	39887
5°	39754
10°	39453
15°	39177
20°	38912
25°	38400
30°	37213
35°	35111
40°	31909
45°	26257
50°	17500
55°	9118
60°	4299
65°	2255
70°	1127
75°	786
80°	586
85°	460



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.8	5.5
10°-20°	346.4	15.5
20°-30°	518.1	23.2
30°-40°	579.5	26.0
40°-50°	454.7	20.4
50°-60°	165.9	7.4
60°-70°	33.8	1.5
70°-80°	7.3	0.3
80°-90°	1.5	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°	986.3	44.2
0°-40°	1565.9	70.2
0°-60°	2186.4	98.1
0°-90°	2229.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2229.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1294	
5°	1284	122
15°	1227	346
25°	1129	518
35°	933	580
45°	602	455
55°	170	166
65°	31	34
75°	7	7
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1293.5
2.5°	1291.6
5°	1284.3
7.5°	1273.8
10°	1260.0
12.5°	1244.3
15°	1227.2
17.5°	1208.1
20°	1185.8
22.5°	1159.5
25°	1128.6
27.5°	1090.4
30°	1045.1
32.5°	991.9
35°	932.7
37.5°	866.3
40°	792.7
42.5°	705.3
45°	602.1
47.5°	485.7
50°	364.8
52.5°	255.7
55°	169.6
57.5°	108.5
60°	69.7
62.5°	46.0
65°	30.9
67.5°	19.7
70°	12.5
72.5°	8.5
75°	6.6
77.5°	4.6
80°	3.3
82.5°	2.0
85°	1.3
87.5°	0.7
90°	0.0

(END OF REPORT)