

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: P244712

Luminaire Tested: **LSR8B20D010 EC8B20940 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244712  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-44)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20940 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1889.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

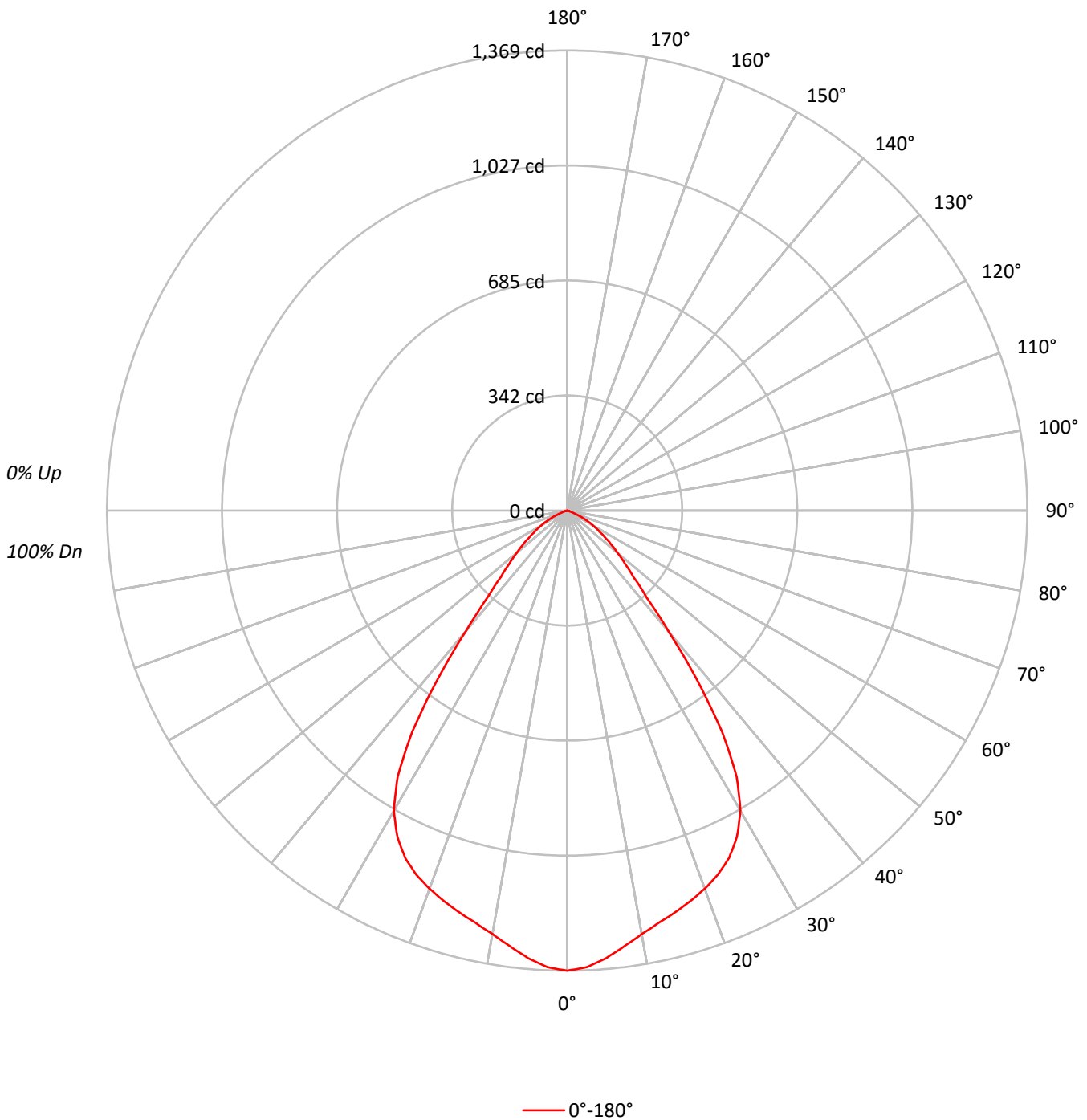
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	62
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41

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

	0°
0°	42215
5°	41364
10°	40054
15°	39516
20°	39280
25°	38784
30°	36700
35°	30270
40°	18899
45°	12154
50°	9427
55°	7258
60°	5495
65°	3575
70°	1524
75°	751
80°	337
85°	212



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.7	6.7
10°-20°	349.7	18.5
20°-30°	520.9	27.6
30°-40°	483.7	25.6
40°-50°	228.5	12.1
50°-60°	122.7	6.5
60°-70°	49.3	2.6
70°-80°	7.7	0.4
80°-90°	0.8	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°	996.2	52.7
0°-40°	1480.0	78.3
0°-60°	1831.2	96.9
0°-90°	1889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1889.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1369	
5°	1336	126
15°	1238	350
25°	1140	521
35°	804	484
45°	279	228
55°	135	123
65°	49	49
75°	6	8
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1369.0
2.5°	1359.6
5°	1336.3
7.5°	1306.8
10°	1279.2
12.5°	1256.6
15°	1237.8
17.5°	1218.3
20°	1197.0
22.5°	1172.5
25°	1139.9
27.5°	1094.0
30°	1030.7
32.5°	937.8
35°	804.1
37.5°	633.3
40°	469.5
42.5°	349.6
45°	278.7
47.5°	232.9
50°	196.5
52.5°	163.8
55°	135.0
57.5°	109.8
60°	89.1
62.5°	69.7
65°	49.0
67.5°	28.9
70°	16.9
72.5°	10.0
75°	6.3
77.5°	3.8
80°	1.9
82.5°	1.3
85°	0.6
87.5°	0.0
90°	0.0

(END OF REPORT)