

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: P246722

Luminaire Tested: **LSR8B20D010 EC8B20935 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20935 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1856.0 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

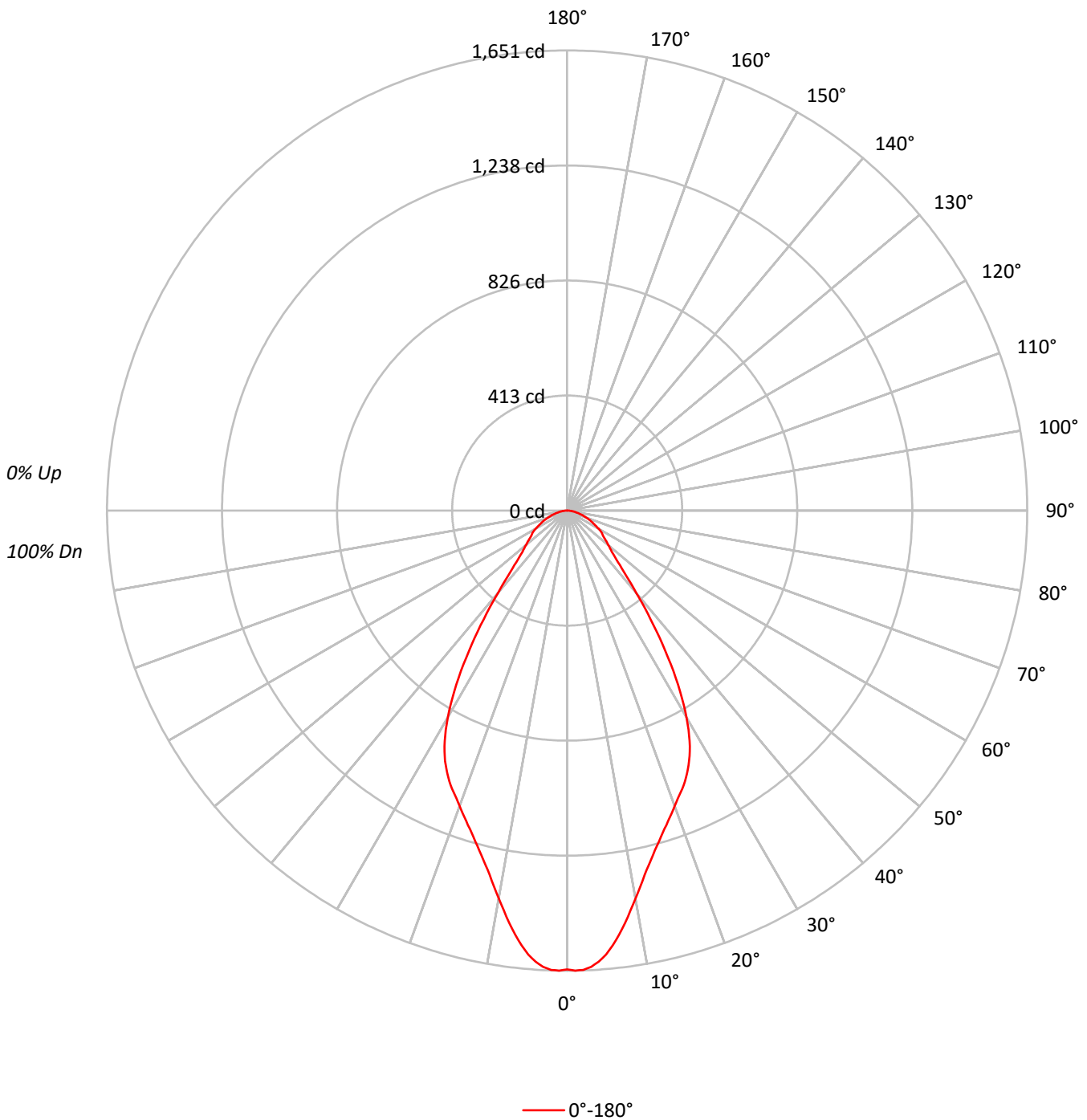
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

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

	0°
0°	50769
5°	49483
10°	44238
15°	39752
20°	37019
25°	34875
30°	30494
35°	23106
40°	15518
45°	10937
50°	9278
55°	8457
60°	8017
65°	7209
70°	6482
75°	5838
80°	5132
85°	4953



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.3	7.9
10°-20°	351.2	18.9
20°-30°	465.4	25.1
30°-40°	381.6	20.6
40°-50°	203.3	11.0
50°-60°	143.1	7.7
60°-70°	98.6	5.3
70°-80°	51.4	2.8
80°-90°	15.2	0.8
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°	962.8	51.9
0°-40°	1344.4	72.4
0°-60°	1690.7	91.1
0°-90°	1856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1856.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1646	
5°	1599	146
15°	1245	351
25°	1025	465
35°	614	382
45°	251	203
55°	157	143
65°	99	99
75°	49	51
85°	14	15
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1646.4
1°	1651.1
2°	1649.1
3°	1639.3
4°	1622.6
5°	1598.6
6°	1568.5
7°	1532.5
8°	1493.8
9°	1452.6
10°	1412.8
11°	1374.7
12°	1336.0
13°	1303.7
14°	1273.1
15°	1245.2
16°	1218.9
17°	1194.6
18°	1172.2
19°	1149.7
20°	1128.1
21°	1107.2
22°	1088.9
23°	1070.2
24°	1048.2
25°	1025.0
26°	998.8
27°	969.2
28°	935.8
29°	898.9
30°	856.4
31°	811.9
32°	765.1
33°	715.3
34°	665.2
35°	613.8
37.5°	491.8
40°	385.5
42.5°	304.4
45°	250.8
47.5°	215.4
50°	193.4
52.5°	174.0
55°	157.3
57.5°	147.1



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	130.0
62.5°	113.3
65°	98.8
67.5°	85.9
70°	71.9
72.5°	60.1
75°	49.0
77.5°	35.4
80°	28.9
82.5°	20.9
85°	14.0
87.5°	6.5
90°	0.0

(END OF REPORT)