

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: P244286

Luminaire Tested: **LSR8B20D010 EC8B20950 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20950 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2010.0 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

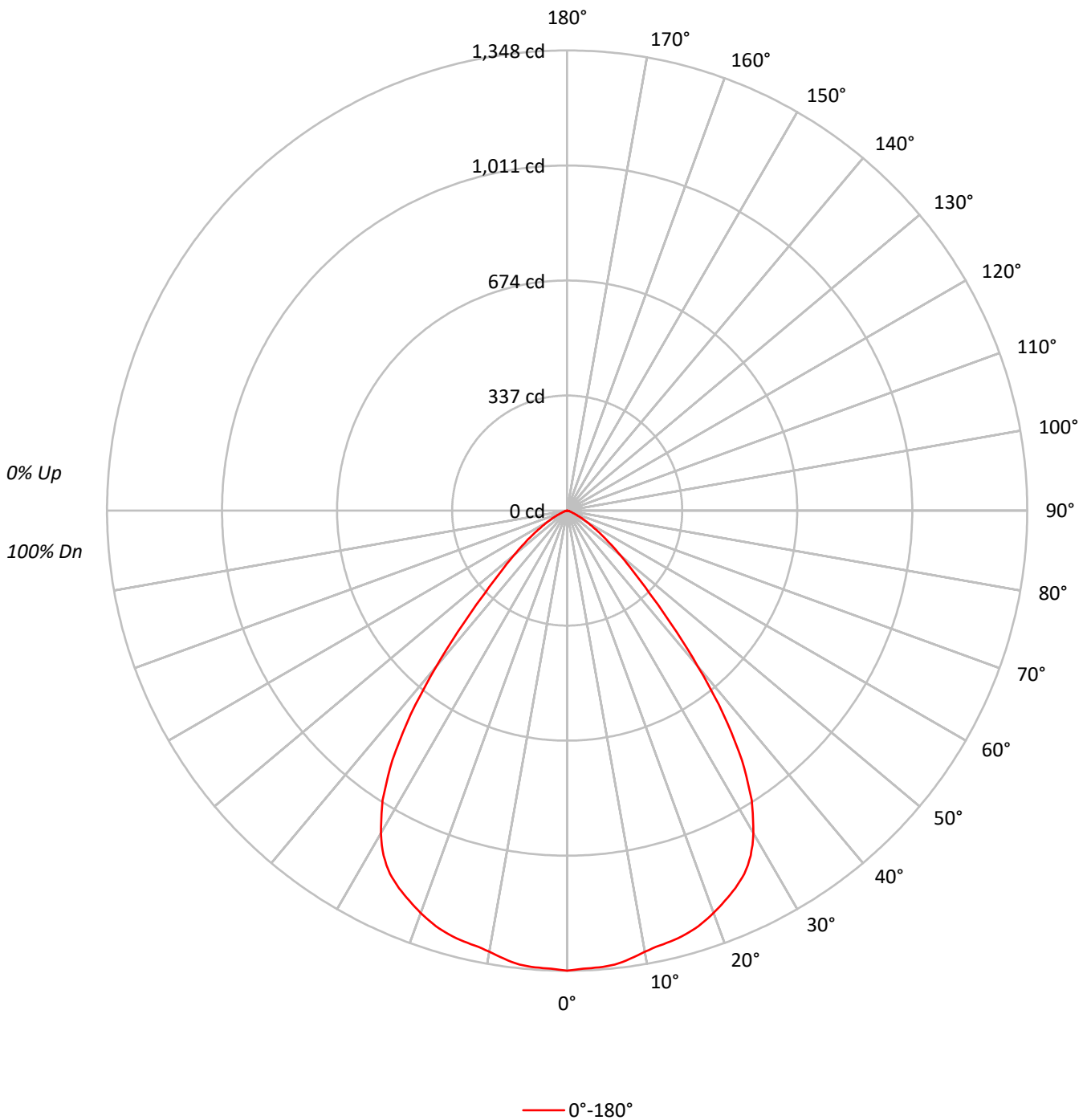
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	71	77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	63	62
6	82	71	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52
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	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

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

	0°
0°	41561
5°	41469
10°	41091
15°	41246
20°	41160
25°	40757
30°	38847
35°	33635
40°	23991
45°	14744
50°	9724
55°	6435
60°	4120
65°	2247
70°	1100
75°	548
80°	302
85°	212



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.0	6.3
10°-20°	364.4	18.1
20°-30°	548.4	27.3
30°-40°	543.0	27.0
40°-50°	275.9	13.7
50°-60°	111.1	5.5
60°-70°	33.7	1.7
70°-80°	5.8	0.3
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°	1039.8	51.7
0°-40°	1582.8	78.7
0°-60°	1969.8	98.0
0°-90°	2010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2010.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1348	
5°	1340	127
15°	1292	364
25°	1198	548
35°	894	543
45°	338	276
55°	120	111
65°	31	34
75°	5	6
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1347.8
1°	1344.9
2°	1342.6
3°	1342.0
4°	1341.4
5°	1339.7
6°	1337.3
7°	1332.7
8°	1325.7
9°	1319.3
10°	1312.3
11°	1306.5
12°	1302.5
13°	1299.6
14°	1296.1
15°	1292.0
16°	1286.8
17°	1280.4
18°	1272.8
19°	1264.1
20°	1254.3
21°	1243.8
22°	1233.3
23°	1222.3
24°	1210.7
25°	1197.9
26°	1184.0
27°	1166.0
28°	1145.0
29°	1120.1
30°	1091.0
32.5°	1006.2
35°	893.5
37.5°	752.9
40°	596.0
42.5°	450.2
45°	338.1
47.5°	258.5
50°	202.7
52.5°	157.4
55°	119.7
57.5°	88.9
60°	66.8
62.5°	47.6
65°	30.8



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	19.2
70°	12.2
72.5°	7.6
75°	4.6
77.5°	2.9
80°	1.7
82.5°	1.2
85°	0.6
87.5°	0.0
90°	0.0

(END OF REPORT)