

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: P243854

Luminaire Tested: **LSR8B20D010 EC8B20950 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20950 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2131.0 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

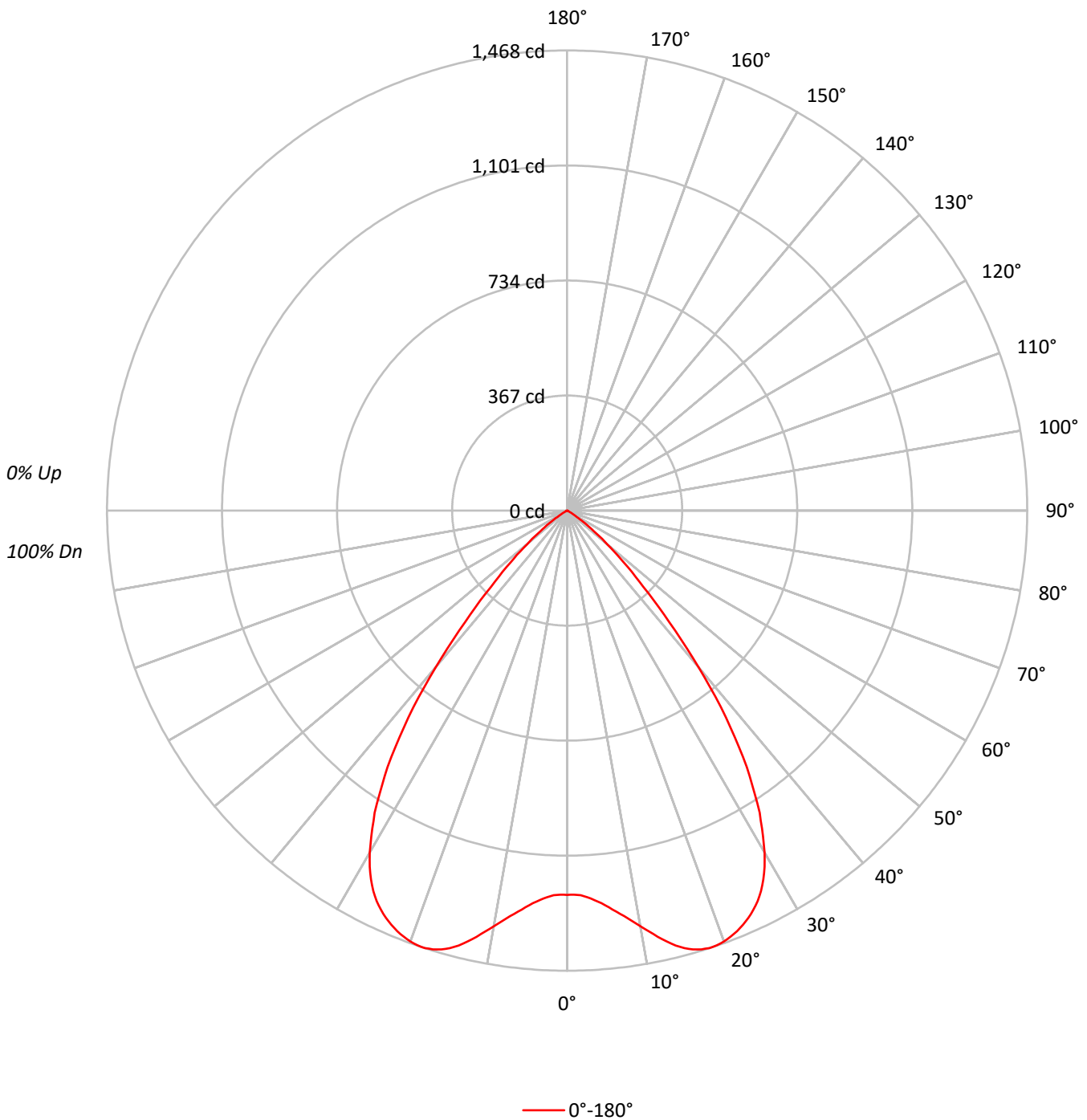
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	107	105	110	108	105	103	104	102	100		100	98	97		96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51		60	55	51		59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47		56	51	47		55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52	47	43	42

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

	0°
0°	37808
5°	38928
10°	42171
15°	46140
20°	48002
25°	47828
30°	44861
35°	37618
40°	26193
45°	15002
50°	8055
55°	3322
60°	826
65°	212
70°	108
75°	71
80°	107
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.9	5.8
10°-20°	407.4	19.1
20°-30°	640.9	30.1
30°-40°	609.7	28.6
40°-50°	281.1	13.2
50°-60°	63.9	3.0
60°-70°	4.2	0.2
70°-80°	0.9	0.0
80°-90°	0.1	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°	1171.2	55.0
0°-40°	1780.9	83.6
0°-60°	2125.9	99.8
0°-90°	2131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2131.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1226	
5°	1258	123
15°	1445	407
25°	1406	641
35°	999	610
45°	344	281
55°	62	64
65°	3	4
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1226.1
1°	1225.5
2°	1227.9
3°	1234.9
4°	1245.4
5°	1257.6
6°	1272.8
7°	1289.1
8°	1306.0
9°	1325.8
10°	1346.8
11°	1367.8
12°	1389.9
13°	1410.9
14°	1430.2
15°	1445.3
16°	1456.4
17°	1464.0
18°	1467.5
19°	1466.9
20°	1462.8
21°	1455.8
22°	1447.1
23°	1435.4
24°	1422.0
25°	1405.7
26°	1386.4
27°	1362.0
28°	1332.8
29°	1299.0
30°	1259.9
32.5°	1142.7
35°	999.3
37.5°	832.6
40°	650.7
42.5°	481.0
45°	344.0
47.5°	243.7
50°	167.9
52.5°	107.3
55°	61.8
57.5°	30.9
60°	13.4
62.5°	5.2
65°	2.9



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	1.7
70°	1.2
72.5°	1.2
75°	0.6
77.5°	0.6
80°	0.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)