

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: P244418

Luminaire Tested: **LSR8B20D010 EC8B20935 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244418  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B20D010 EC8B20935 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1819.0 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

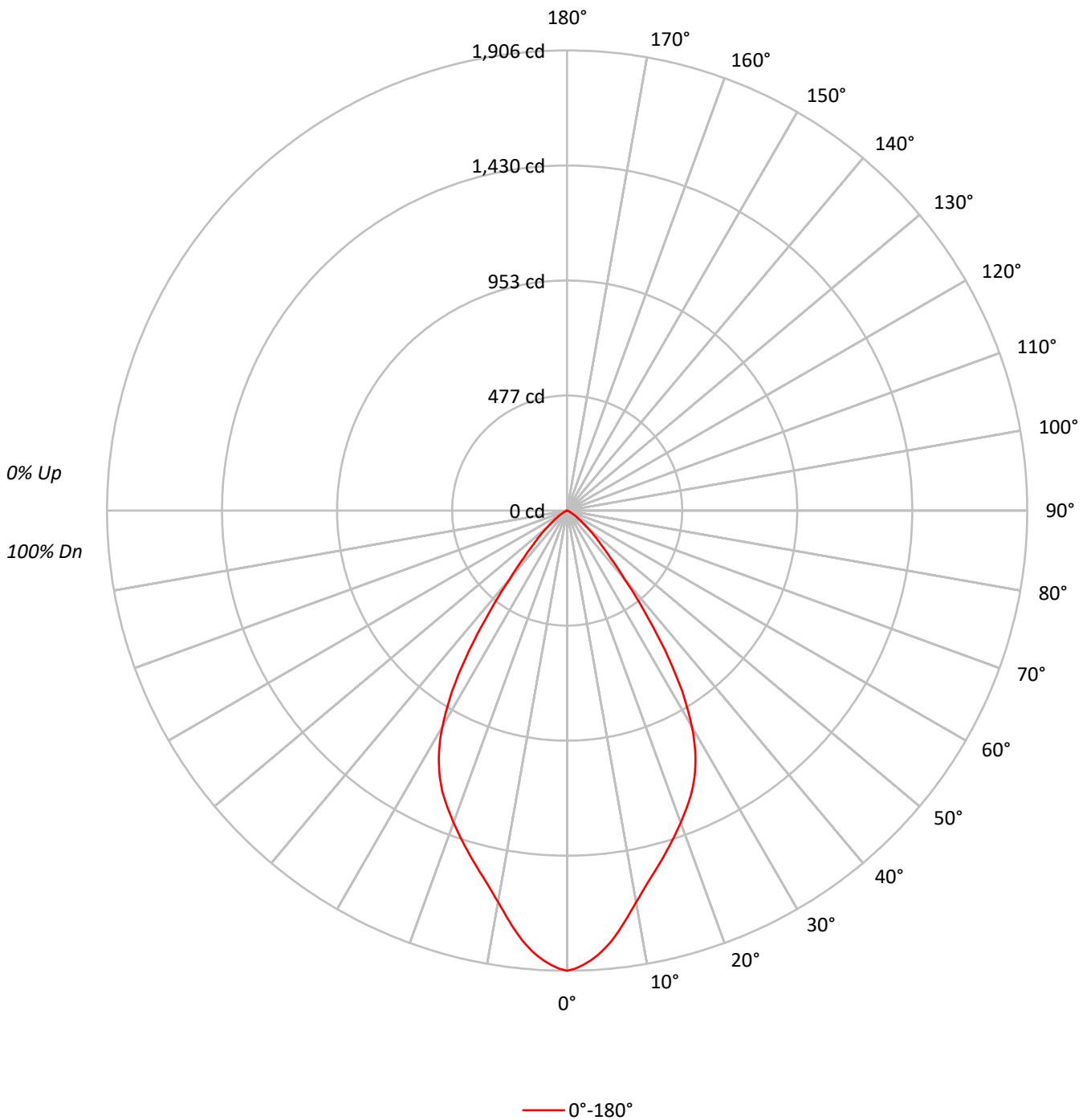
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56	51	48	47

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

	0°
0°	58777
5°	56284
10°	51574
15°	47988
20°	45134
25°	42231
30°	36828
35°	26618
40°	14922
45°	8587
50°	5253
55°	2989
60°	1554
65°	795
70°	433
75°	262
80°	160
85°	142



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.9	9.2
10°-20°	422.6	23.2
20°-30°	563.9	31.0
30°-40°	434.6	23.9
40°-50°	162.0	8.9
50°-60°	53.0	2.9
60°-70°	12.2	0.7
70°-80°	2.5	0.1
80°-90°	0.3	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°	1154.3	63.5
0°-40°	1588.9	87.4
0°-60°	1804.0	99.2
0°-90°	1819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1819.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1906	
5°	1818	168
15°	1503	423
25°	1241	564
35°	707	435
45°	197	162
55°	56	53
65°	11	12
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1906.1
1°	1897.8
2°	1883.9
3°	1866.1
4°	1844.4
5°	1818.3
6°	1788.7
7°	1754.8
8°	1718.8
9°	1681.4
10°	1647.1
11°	1614.0
12°	1583.2
13°	1554.9
14°	1528.9
15°	1503.2
16°	1477.1
17°	1451.9
18°	1425.9
19°	1400.2
20°	1375.4
21°	1349.8
22°	1325.0
23°	1299.0
24°	1271.6
25°	1241.2
26°	1207.7
27°	1170.8
28°	1129.9
29°	1084.3
30°	1034.3
32.5°	887.8
35°	707.1
37.5°	523.7
40°	370.7
42.5°	265.5
45°	196.9
47.5°	148.2
50°	109.5
52.5°	78.2
55°	55.6
57.5°	38.2
60°	25.2
62.5°	16.5
65°	10.9



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	7.4
70°	4.8
72.5°	3.0
75°	2.2
77.5°	1.3
80°	0.9
82.5°	0.4
85°	0.4
87.5°	0.0
90°	0.0

(END OF REPORT)