

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: P244274

Luminaire Tested: **LSR8B20D010 EC8B20935 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244274  
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 EC8B20935 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE 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: 1859.0 lumens  
Efficiency: N/A  
Efficacy: 87.3 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

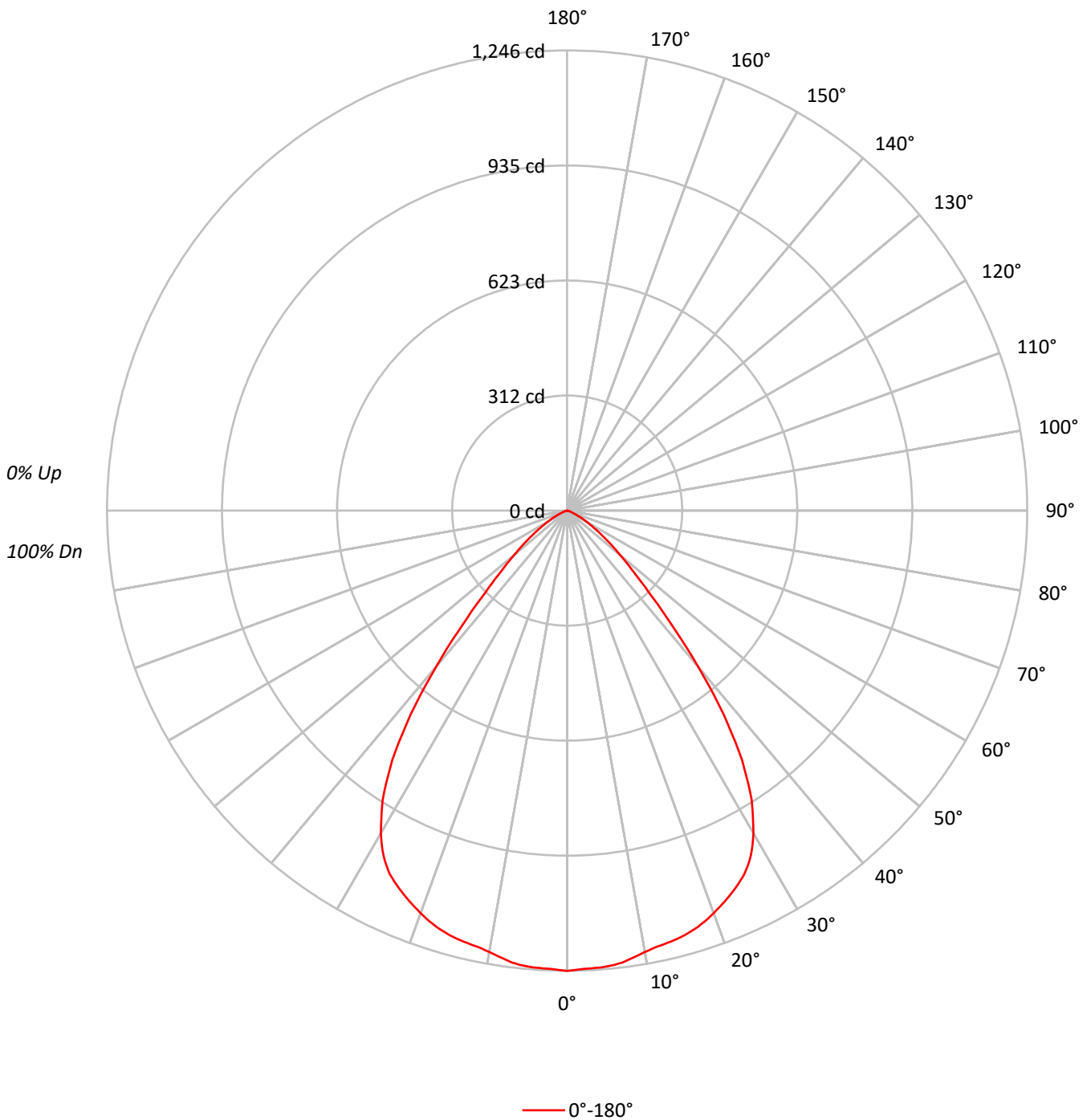
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	38437
5°	38352
10°	38007
15°	38149
20°	38066
25°	37695
30°	35927
35°	31109
40°	22192
45°	13637
50°	8995
55°	5951
60°	3811
65°	2080
70°	1019
75°	512
80°	284
85°	177



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.5	6.3
10°-20°	337.0	18.1
20°-30°	507.2	27.3
30°-40°	502.2	27.0
40°-50°	255.2	13.7
50°-60°	102.8	5.5
60°-70°	31.2	1.7
70°-80°	5.4	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°	961.7	51.7
0°-40°	1463.9	78.7
0°-60°	1821.8	98.0
0°-90°	1859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1859.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1246	
5°	1239	117
15°	1195	337
25°	1108	507
35°	826	502
45°	313	255
55°	111	103
65°	28	31
75°	4	5
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1246.5
1°	1243.8
2°	1241.7
3°	1241.2
4°	1240.6
5°	1239.0
6°	1236.9
7°	1232.6
8°	1226.1
9°	1220.2
10°	1213.8
11°	1208.4
12°	1204.6
13°	1201.9
14°	1198.7
15°	1195.0
16°	1190.1
17°	1184.2
18°	1177.2
19°	1169.2
20°	1160.0
21°	1150.4
22°	1140.7
23°	1130.5
24°	1119.7
25°	1107.9
26°	1095.0
27°	1078.4
28°	1059.0
29°	1035.9
30°	1009.0
32.5°	930.6
35°	826.4
37.5°	696.3
40°	551.3
42.5°	416.4
45°	312.7
47.5°	239.1
50°	187.5
52.5°	145.6
55°	110.7
57.5°	82.2
60°	61.8
62.5°	44.1
65°	28.5



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	17.7
70°	11.3
72.5°	7.0
75°	4.3
77.5°	2.7
80°	1.6
82.5°	1.1
85°	0.5
87.5°	0.0
90°	0.0

(END OF REPORT)