

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: P244329

Luminaire Tested: **LSR8B30D010 EC8B30850 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244329  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B30D010 EC8B30850 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2838.0 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

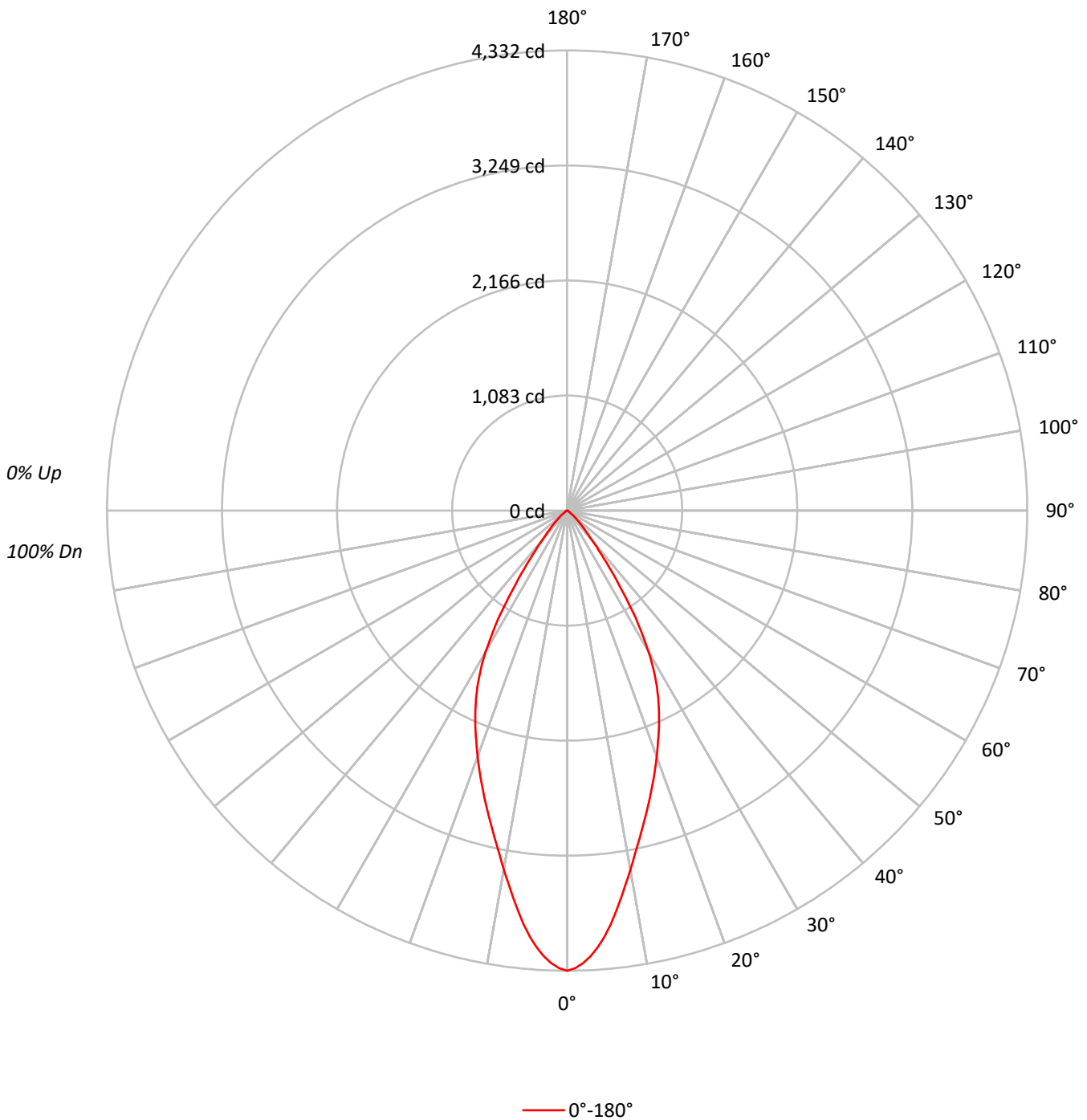
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

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

	0°
0°	133589
5°	124606
10°	107410
15°	92957
20°	80864
25°	69494
30°	54603
35°	31858
40°	14701
45°	7605
50°	3819
55°	1855
60°	944
65°	562
70°	261
75°	226
80°	178
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.3	12.8
10°-20°	814.1	28.7
20°-30°	925.6	32.6
30°-40°	543.6	19.2
40°-50°	145.9	5.1
50°-60°	34.6	1.2
60°-70°	7.9	0.3
70°-80°	1.8	0.1
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°	2104.1	74.1
0°-40°	2647.7	93.3
0°-60°	2828.2	99.7
0°-90°	2838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2838.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4332	
5°	4026	364
15°	2912	814
25°	2042	926
35°	846	544
45°	174	146
55°	34	35
65°	8	8
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4332.2
1°	4308.3
2°	4264.2
3°	4201.9
4°	4121.4
5°	4025.5
6°	3917.2
7°	3794.5
8°	3671.9
9°	3548.2
10°	3430.3
11°	3315.3
12°	3207.0
13°	3106.4
14°	3005.7
15°	2911.8
16°	2819.8
17°	2728.7
18°	2640.6
19°	2551.4
20°	2464.2
21°	2377.0
22°	2293.6
23°	2211.2
24°	2126.8
25°	2042.5
26°	1955.3
27°	1860.4
28°	1760.7
29°	1651.4
30°	1533.5
32.5°	1202.9
35°	846.3
37.5°	557.8
40°	365.2
42.5°	252.1
45°	174.4
47.5°	119.8
50°	79.6
52.5°	51.8
55°	34.5
57.5°	23.0
60°	15.3
62.5°	10.5
65°	7.7



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	4.8
70°	2.9
72.5°	1.9
75°	1.9
77.5°	1.0
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)