

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: P250092

Luminaire Tested: **LSR8B80D010 EC8B80940 8LBN0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250092  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80940 8LBN0WH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6927.0 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

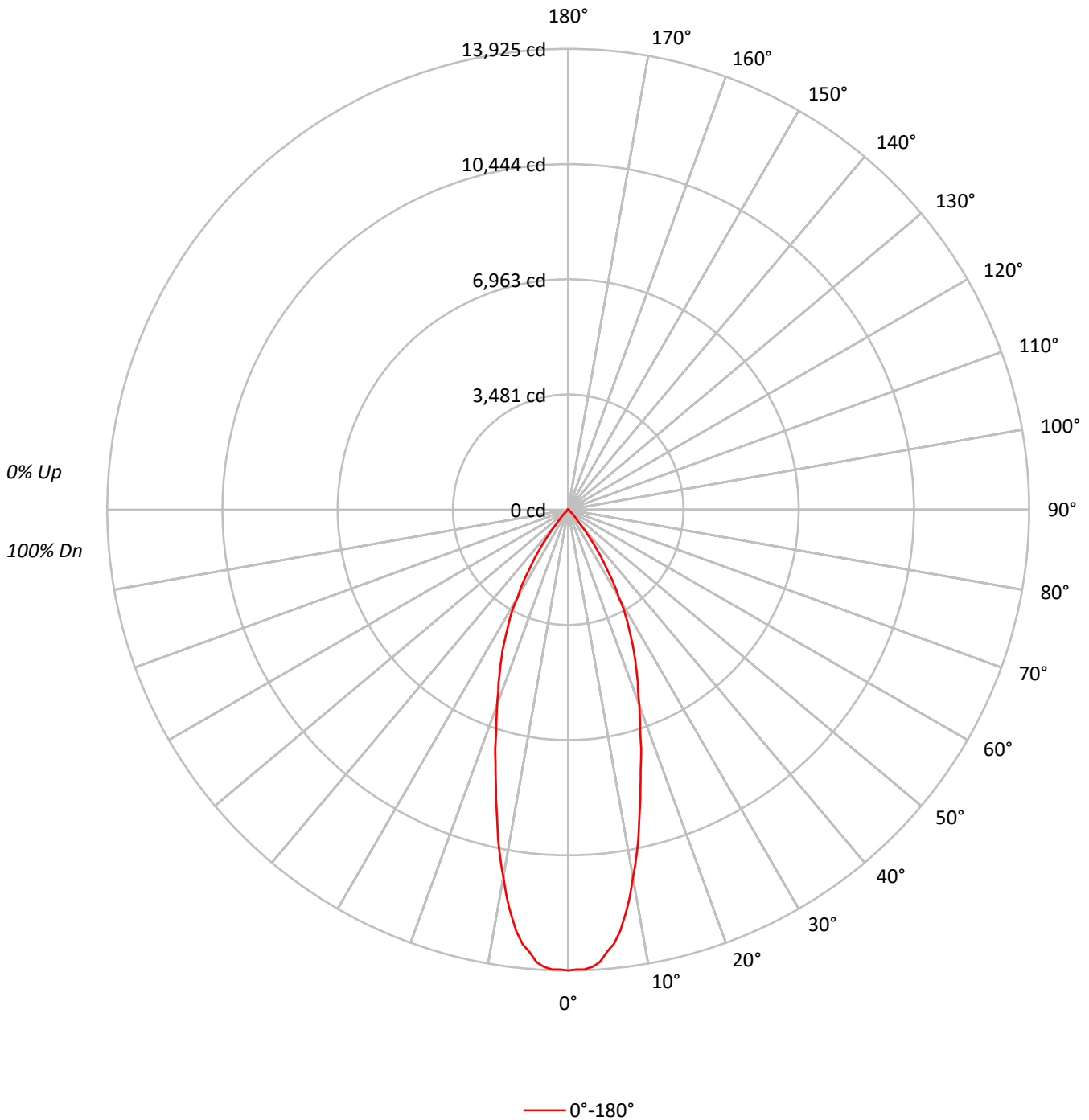
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89		92	90	87		90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83		88	85	82		86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78		84	81	78		83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74		80	76	74		79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70		77	73	70		76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67		73	69	66		72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63		70	66	63		69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60		67	63	60		67	63	60	59

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

	0°
0°	429396
5°	415246
10°	353143
15°	269532
20°	205988
25°	159628
30°	108871
35°	63965
40°	19559
45°	7693
50°	115
55°	129
60°	148
65°	350
70°	658
75°	572
80°	426
85°	2583



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1216.1	17.6
10°-20°	2356.6	34.0
20°-30°	2121.7	30.6
30°-40°	1049.7	15.2
40°-50°	159.7	2.3
50°-60°	6.5	0.1
60°-70°	8.4	0.1
70°-80°	3.2	0.0
80°-90°	5.0	0.1
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°	5694.4	82.2
0°-40°	6744.2	97.4
0°-60°	6910.4	99.8
0°-90°	6927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6927.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13925	
5°	13415	###
15°	8443	2357
25°	4692	2122
35°	1699	1050
45°	176	160
55°	2	7
65°	5	8
75°	5	3
85°	7	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13925.0
1°	13896.0
2°	13903.1
3°	13833.0
4°	13705.0
5°	13414.9
6°	13192.6
7°	12839.7
8°	12365.9
9°	11872.8
10°	11278.2
11°	10746.4
12°	10176.0
13°	9545.1
14°	9001.3
15°	8442.9
16°	7966.7
17°	7546.2
18°	7028.9
19°	6649.4
20°	6277.2
21°	5890.4
22°	5607.7
23°	5278.9
24°	4976.8
25°	4691.6
26°	4355.6
27°	4053.5
28°	3782.7
29°	3485.4
30°	3057.6
31°	2816.0
32°	2511.4
33°	2177.8
34°	1924.0
35°	1699.2
37.5°	1075.6
40°	485.9
42.5°	331.2
45°	176.4
47.5°	99.1
50°	2.4
52.5°	9.7
55°	2.4
57.5°	14.5



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	2.4
62.5°	12.1
65°	4.8
67.5°	12.1
70°	7.3
72.5°	2.4
75°	4.8
77.5°	0.0
80°	2.4
82.5°	9.7
85°	7.3
87.5°	0.0
90°	0.0

(END OF REPORT)