

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: P249805

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249805  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80840 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7489.0 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

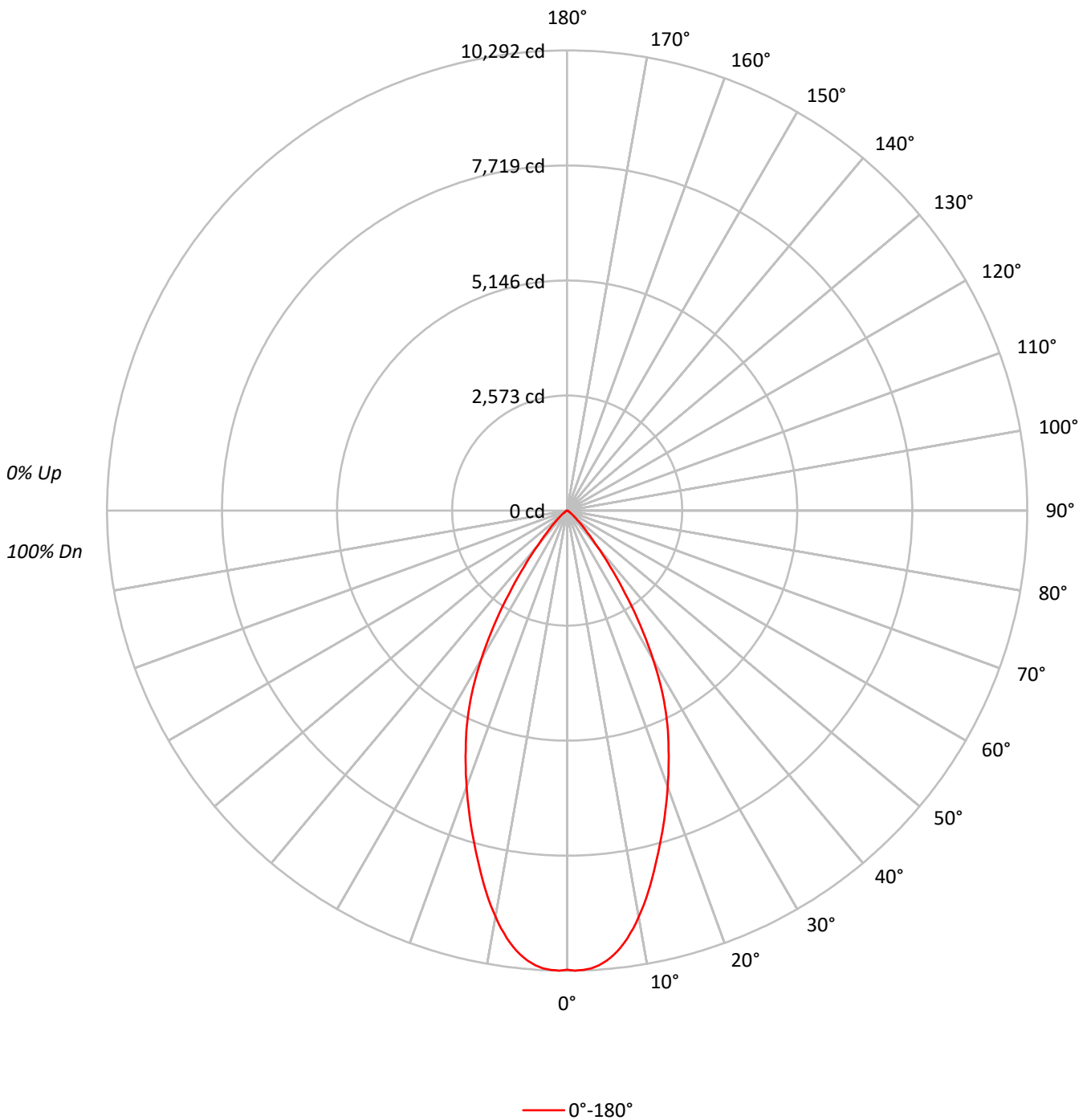
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	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	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	65	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	57	64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53

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

	0°
0°	316741
5°	312850
10°	288932
15°	251942
20°	215813
25°	180648
30°	137435
35°	85196
40°	42029
45°	20004
50°	9724
55°	4769
60°	2973
65°	2036
70°	1145
75°	905
80°	906
85°	885



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	936.7	12.5
10°-20°	2199.0	29.4
20°-30°	2403.4	32.1
30°-40°	1430.2	19.1
40°-50°	392.3	5.2
50°-60°	88.9	1.2
60°-70°	27.5	0.4
70°-80°	8.4	0.1
80°-90°	2.7	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°	5539.0	74.0
0°-40°	6969.3	93.1
0°-60°	7450.4	99.5
0°-90°	7489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7489.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10272	
5°	10107	937
15°	7892	2199
25°	5309	2403
35°	2263	1430
45°	459	392
55°	89	89
65°	28	27
75°	8	8
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10271.7
1°	10291.9
2°	10279.3
3°	10253.9
4°	10195.6
5°	10106.9
6°	9992.9
7°	9840.8
8°	9663.4
9°	9458.1
10°	9227.5
11°	8981.7
12°	8718.1
13°	8446.9
14°	8165.6
15°	7891.9
16°	7623.3
17°	7359.7
18°	7096.1
19°	6832.6
20°	6576.6
22.5°	5932.9
25°	5309.4
27.5°	4622.6
30°	3859.8
32.5°	3041.2
35°	2263.2
37.5°	1573.8
40°	1044.1
42.5°	684.3
45°	458.7
47.5°	304.1
50°	202.7
52.5°	124.2
55°	88.7
57.5°	63.4
60°	48.2
62.5°	35.5
65°	27.9
67.5°	17.7
70°	12.7
72.5°	10.1
75°	7.6
77.5°	5.1
80°	5.1



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	2.5
85°	2.5
87.5°	2.5
90°	0.0

(END OF REPORT)