

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: P249889

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80840 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG 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: 8085.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

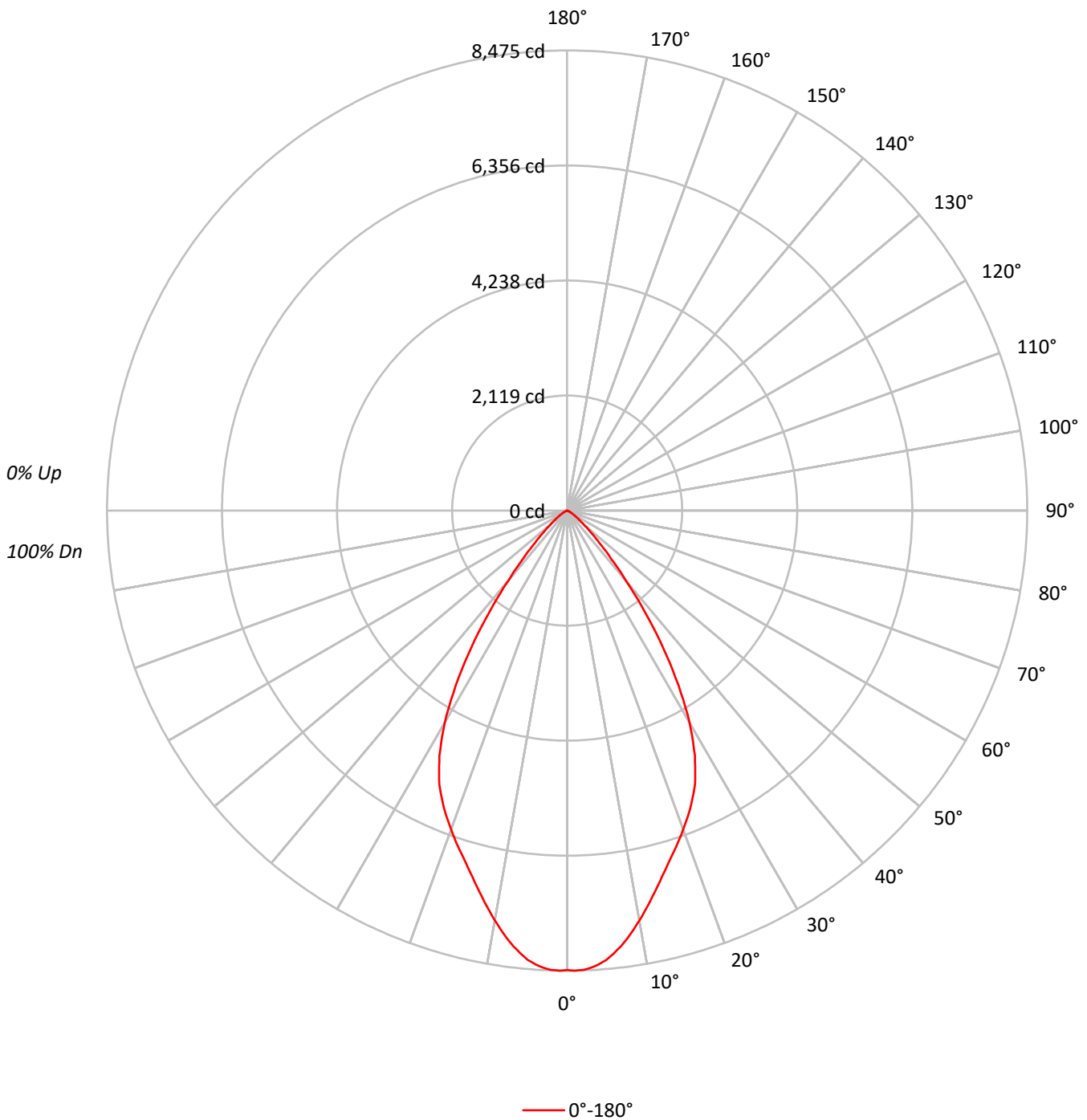
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	101		100	99	98		97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91		94	92	89		91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76		83	79	76		81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70		78	73	70		76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65		73	68	65		71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56		64	60	56		63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53		61	56	52		60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49		57	53	49		57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	260949
5°	257108
10°	239947
15°	220244
20°	205129
25°	189521
30°	160714
35°	115617
40°	68110
45°	36396
50°	18992
55°	10709
60°	5908
65°	3495
70°	1596
75°	905
80°	444
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.5	9.5
10°-20°	1941.1	24.0
20°-30°	2519.9	31.2
30°-40°	1902.0	23.5
40°-50°	695.9	8.6
50°-60°	194.5	2.4
60°-70°	51.1	0.6
70°-80°	8.6	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°	5232.5	64.7
0°-40°	7134.4	88.2
0°-60°	8024.9	99.3
0°-90°	8085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8085.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8462	
5°	8306	771
15°	6899	1941
25°	5570	2520
35°	3071	1902
45°	835	696
55°	199	195
65°	48	51
75°	8	9
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8462.4
1°	8475.0
2°	8464.9
3°	8432.1
4°	8376.7
5°	8306.1
6°	8202.7
7°	8089.2
8°	7958.1
9°	7814.4
10°	7663.1
11°	7511.8
12°	7355.4
13°	7196.6
14°	7045.3
15°	6899.0
16°	6760.3
17°	6626.7
18°	6505.7
19°	6379.6
20°	6251.0
22.5°	5930.7
25°	5570.2
27.5°	5093.6
30°	4513.6
32.5°	3815.1
35°	3071.3
37.5°	2345.1
40°	1692.0
42.5°	1197.7
45°	834.6
47.5°	587.5
50°	395.9
52.5°	290.0
55°	199.2
57.5°	143.7
60°	95.8
62.5°	70.6
65°	47.9
67.5°	32.8
70°	17.7
72.5°	12.6
75°	7.6
77.5°	2.5
80°	2.5



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)