

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: P249791

Luminaire Tested: **LD8B80D010 ER8B80830 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249791
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: LD8B80D010 ER8B80830 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7249.0 lumens
Efficiency: N/A
Efficacy: 97.4 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

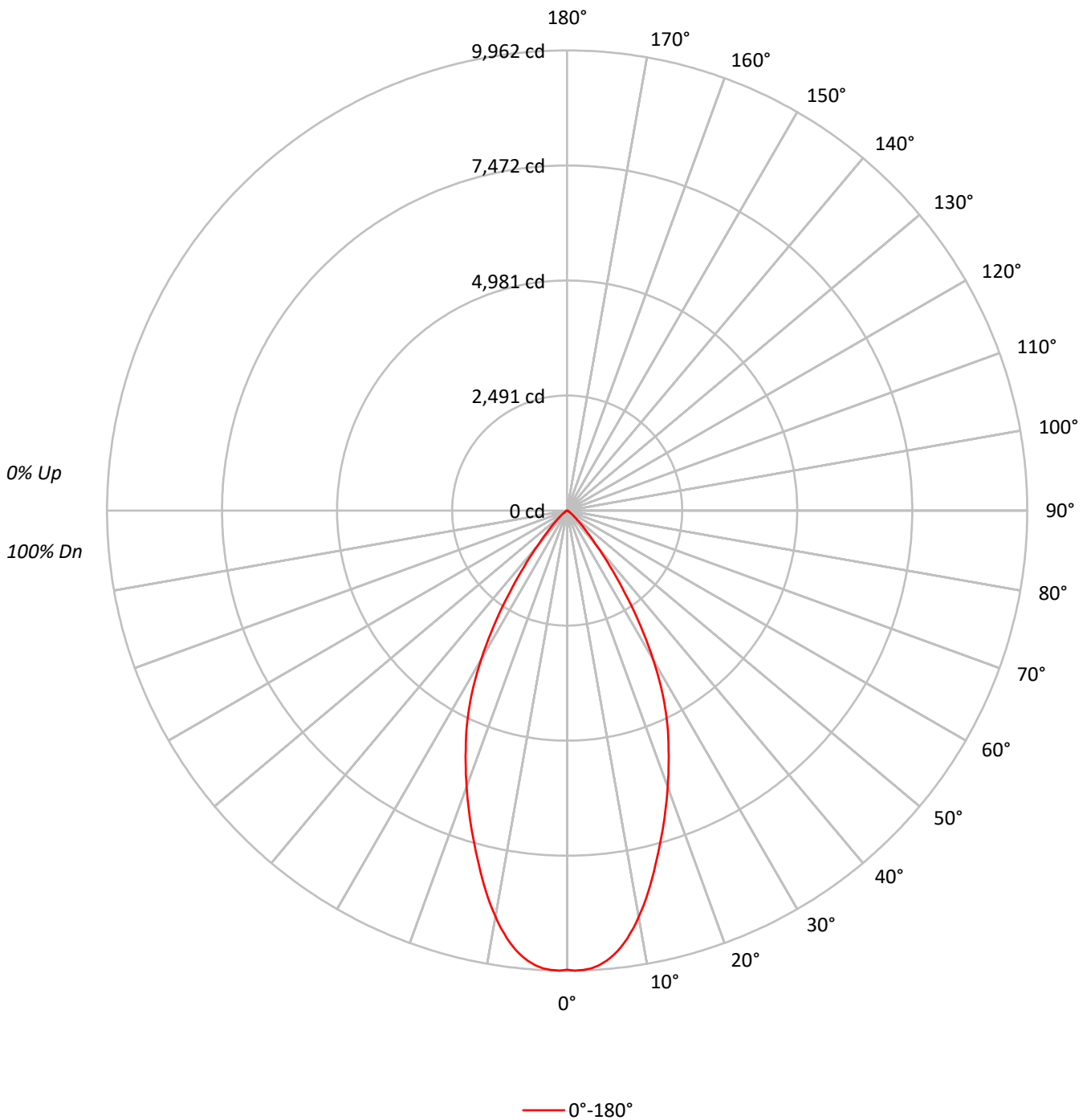
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	306590
5°	302824
10°	279673
15°	243868
20°	208896
25°	174860
30°	133030
35°	82463
40°	40685
45°	19362
50°	9412
55°	4618
60°	2874
65°	1970
70°	1109
75°	882
80°	870
85°	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	906.6	12.5
10°-20°	2128.5	29.4
20°-30°	2326.4	32.1
30°-40°	1384.4	19.1
40°-50°	379.7	5.2
50°-60°	86.0	1.2
60°-70°	26.6	0.4
70°-80°	8.1	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°	5361.5	74.0
0°-40°	6745.9	93.1
0°-60°	7211.7	99.5
0°-90°	7249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7249.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9942	
5°	9783	907
15°	7639	2129
25°	5139	2326
35°	2191	1384
45°	444	380
55°	86	86
65°	27	27
75°	7	8
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9942.5
1°	9962.1
2°	9949.8
3°	9925.3
4°	9868.9
5°	9783.0
6°	9672.6
7°	9525.4
8°	9353.7
9°	9155.0
10°	8931.8
11°	8693.8
12°	8438.7
13°	8176.2
14°	7903.9
15°	7639.0
16°	7379.0
17°	7123.8
18°	6868.7
19°	6613.6
20°	6365.8
22.5°	5742.7
25°	5139.3
27.5°	4474.5
30°	3736.1
32.5°	2943.7
35°	2190.6
37.5°	1523.4
40°	1010.7
42.5°	662.3
45°	444.0
47.5°	294.4
50°	196.2
52.5°	120.2
55°	85.9
57.5°	61.3
60°	46.6
62.5°	34.3
65°	27.0
67.5°	17.2
70°	12.3
72.5°	9.8
75°	7.4
77.5°	4.9
80°	4.9



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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)