

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: P244355

Luminaire Tested: **LSR8B50D010 EC8B50940 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244355
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: LSR8B50D010 EC8B50940 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4441.0 lumens
Efficiency: N/A
Efficacy: 83.8 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

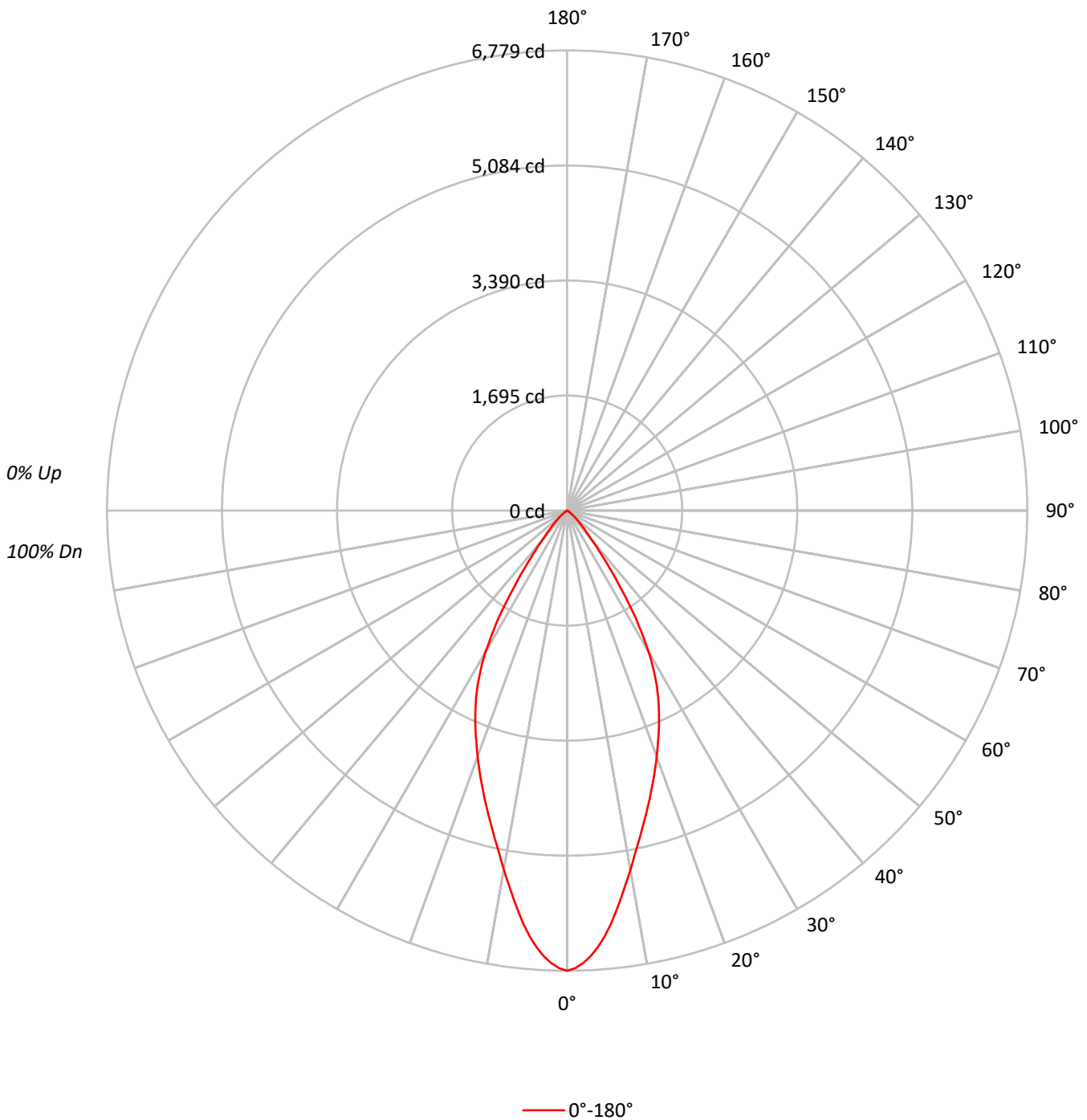
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	209046
5°	194989
10°	168080
15°	145462
20°	126539
25°	108744
30°	85445
35°	49852
40°	23001
45°	11905
50°	5973
55°	2903
60°	1480
65°	876
70°	406
75°	357
80°	266
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.1	12.8
10°-20°	1274.0	28.7
20°-30°	1448.5	32.6
30°-40°	850.7	19.2
40°-50°	228.3	5.1
50°-60°	54.2	1.2
60°-70°	12.3	0.3
70°-80°	2.8	0.1
80°-90°	0.2	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°	3292.6	74.1
0°-40°	4143.2	93.3
0°-60°	4425.7	99.7
0°-90°	4441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4441.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6779	
5°	6299	570
15°	4556	1274
25°	3196	1448
35°	1324	851
45°	273	228
55°	54	54
65°	12	12
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6779.2
1°	6741.7
2°	6672.7
3°	6575.3
4°	6449.3
5°	6299.3
6°	6129.8
7°	5937.8
8°	5745.8
9°	5552.4
10°	5367.9
11°	5187.9
12°	5018.4
13°	4860.9
14°	4703.5
15°	4556.5
16°	4412.5
17°	4270.0
18°	4132.0
19°	3992.5
20°	3856.1
21°	3719.6
22°	3589.1
23°	3460.1
24°	3328.1
25°	3196.1
26°	3059.7
27°	2911.2
28°	2755.2
29°	2584.2
30°	2399.7
32.5°	1882.3
35°	1324.3
37.5°	872.9
40°	571.4
42.5°	394.5
45°	273.0
47.5°	187.5
50°	124.5
52.5°	81.0
55°	54.0
57.5°	36.0
60°	24.0
62.5°	16.5
65°	12.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	7.5
70°	4.5
72.5°	3.0
75°	3.0
77.5°	1.5
80°	1.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)