

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: P244319

Luminaire Tested: **LSR8B50D010 EC8B50835 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244319
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 EC8B50835 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4986.0 lumens
Efficiency: N/A
Efficacy: 94.1 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

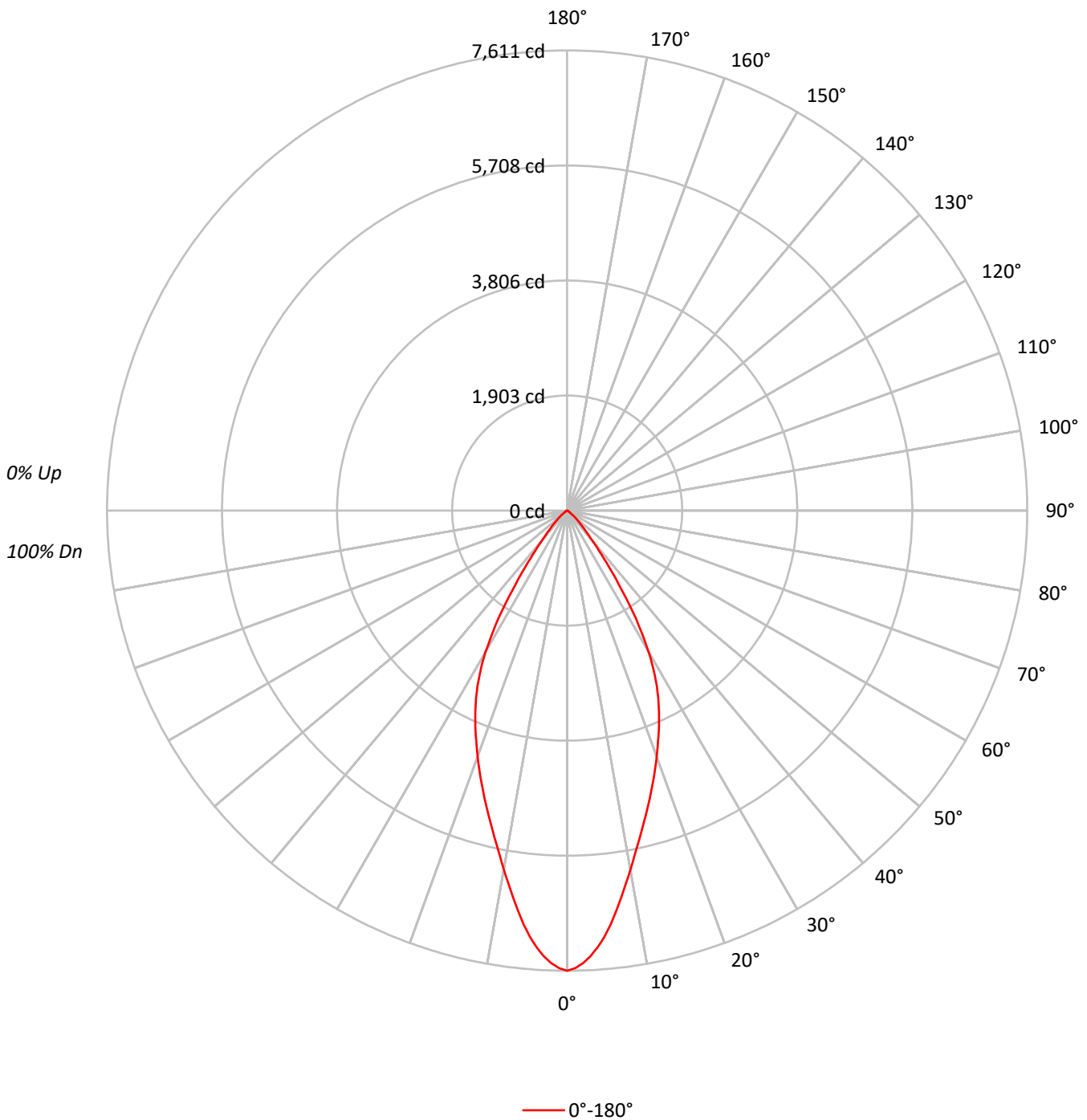
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	234701
5°	218917
10°	188705
15°	163314
20°	142067
25°	122092
30°	95932
35°	55973
40°	25827
45°	13366
50°	6707
55°	3258
60°	1659
65°	985
70°	460
75°	405
80°	302
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.0	12.8
10°-20°	1430.3	28.7
20°-30°	1626.2	32.6
30°-40°	955.1	19.2
40°-50°	256.3	5.1
50°-60°	60.8	1.2
60°-70°	13.9	0.3
70°-80°	3.1	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°	3696.6	74.1
0°-40°	4651.7	93.3
0°-60°	4968.8	99.7
0°-90°	4986.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4986.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7611	
5°	7072	640
15°	5116	1430
25°	3588	1626
35°	1487	955
45°	306	256
55°	61	61
65°	14	14
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7611.2
1°	7569.1
2°	7491.6
3°	7382.2
4°	7240.7
5°	7072.3
6°	6882.1
7°	6666.5
8°	6451.0
9°	6233.8
10°	6026.6
11°	5824.6
12°	5634.3
13°	5457.5
14°	5280.7
15°	5115.7
16°	4954.0
17°	4794.0
18°	4639.1
19°	4482.5
20°	4329.3
21°	4176.0
22°	4029.5
23°	3884.7
24°	3736.5
25°	3588.4
26°	3435.1
27°	3268.4
28°	3093.3
29°	2901.3
30°	2694.2
32.5°	2113.3
35°	1486.9
37.5°	980.0
40°	641.6
42.5°	442.9
45°	306.5
47.5°	210.5
50°	139.8
52.5°	90.9
55°	60.6
57.5°	40.4
60°	26.9
62.5°	18.5
65°	13.5



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	8.4
70°	5.1
72.5°	3.4
75°	3.4
77.5°	1.7
80°	1.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)