

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: P243851

Luminaire Tested: **LSR8B50D010 EC8B50940 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50940 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5174.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

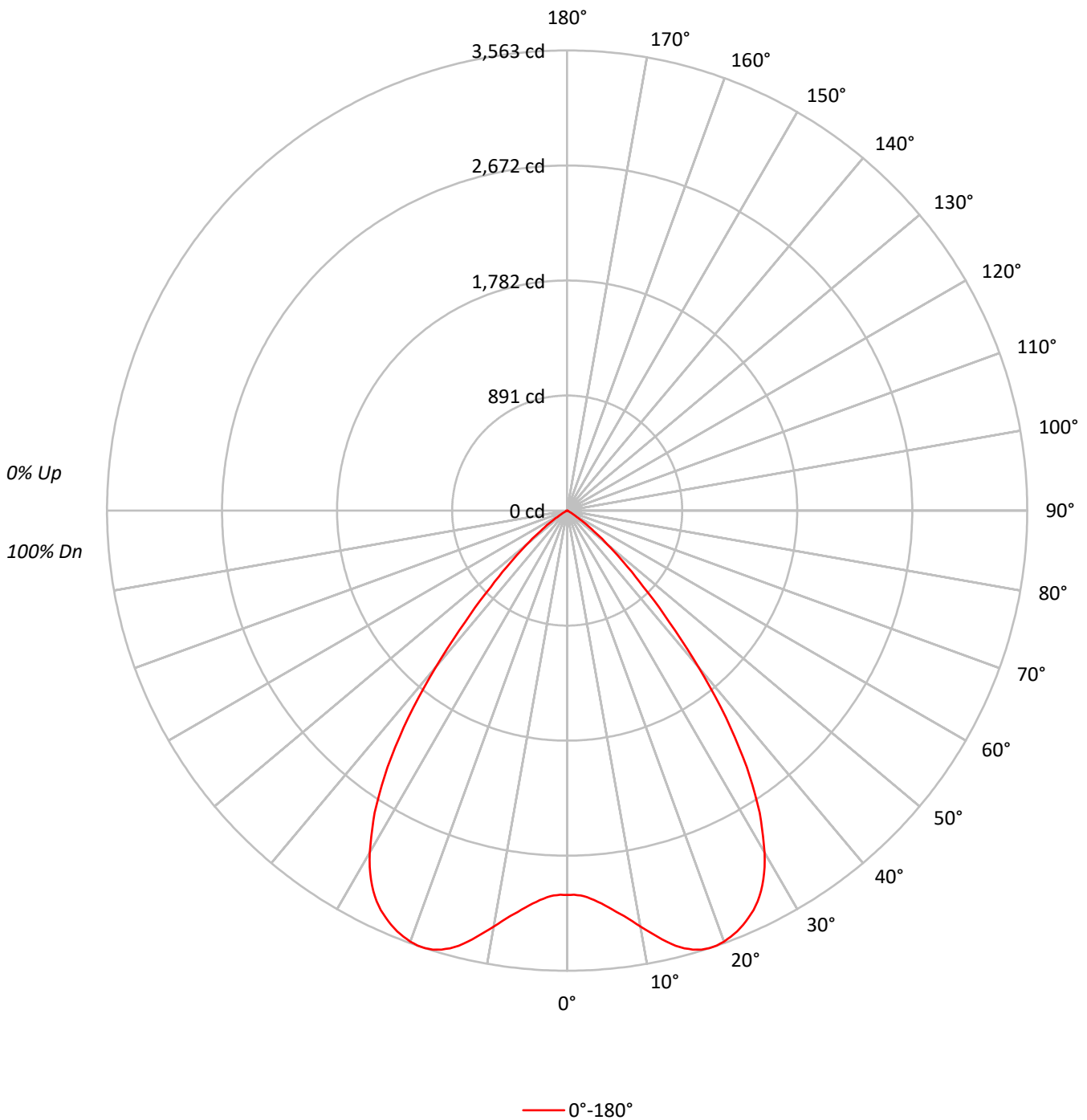
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	91800
5°	94515
10°	102390
15°	112028
20°	116550
25°	116124
30°	108924
35°	91336
40°	63593
45°	36422
50°	19559
55°	8070
60°	2011
65°	518
70°	252
75°	167
80°	249
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.5	5.8
10°-20°	989.0	19.1
20°-30°	1556.2	30.1
30°-40°	1480.3	28.6
40°-50°	682.5	13.2
50°-60°	155.1	3.0
60°-70°	10.2	0.2
70°-80°	2.0	0.0
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°	2843.8	55.0
0°-40°	4324.0	83.6
0°-60°	5161.6	99.8
0°-90°	5174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5174.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2977	
5°	3053	298
15°	3509	989
25°	3413	1556
35°	2426	1480
45°	835	682
55°	150	155
65°	7	10
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2977.0
1°	2975.5
2°	2981.2
3°	2998.2
4°	3023.7
5°	3053.4
6°	3090.2
7°	3129.8
8°	3170.9
9°	3219.0
10°	3270.0
11°	3320.9
12°	3374.7
13°	3425.7
14°	3472.4
15°	3509.2
16°	3536.1
17°	3554.5
18°	3563.0
19°	3561.6
20°	3551.7
21°	3534.7
22°	3513.5
23°	3485.2
24°	3452.6
25°	3413.0
26°	3366.2
27°	3306.8
28°	3236.0
29°	3153.9
30°	3059.1
32.5°	2774.5
35°	2426.3
37.5°	2021.4
40°	1579.8
42.5°	1167.9
45°	835.2
47.5°	591.7
50°	407.7
52.5°	260.5
55°	150.1
57.5°	75.0
60°	32.6
62.5°	12.7
65°	7.1



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	4.2
70°	2.8
72.5°	2.8
75°	1.4
77.5°	1.4
80°	1.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)