

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: P243815

Luminaire Tested: **LSR8B50D010 EC8B50835 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243815
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 EC8B50835 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5809.0 lumens
Efficiency: N/A
Efficacy: 109.6 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

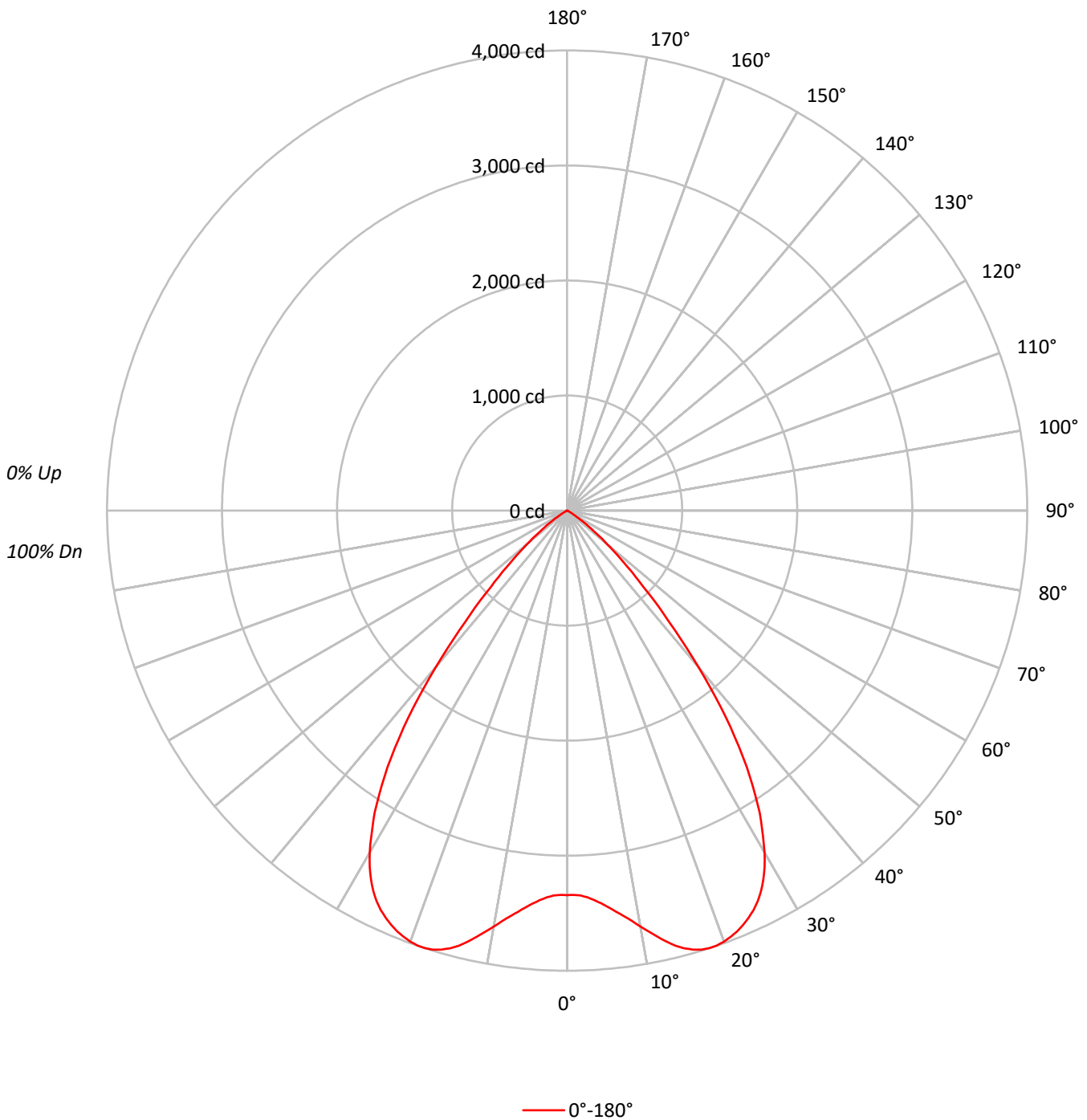
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	103064
5°	106114
10°	114956
15°	125778
20°	130854
25°	130374
30°	122291
35°	102547
40°	71398
45°	40892
50°	21957
55°	9059
60°	2257
65°	576
70°	289
75°	191
80°	284
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.1	5.8
10°-20°	1110.4	19.1
20°-30°	1747.2	30.1
30°-40°	1662.0	28.6
40°-50°	766.2	13.2
50°-60°	174.1	3.0
60°-70°	11.5	0.2
70°-80°	2.3	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°	3192.8	55.0
0°-40°	4854.7	83.6
0°-60°	5795.0	99.8
0°-90°	5809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5809.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3342	
5°	3428	335
15°	3940	1110
25°	3832	1747
35°	2724	1662
45°	938	766
55°	168	174
65°	8	11
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3342.3
1°	3340.7
2°	3347.1
3°	3366.2
4°	3394.8
5°	3428.1
6°	3469.5
7°	3514.0
8°	3560.1
9°	3614.1
10°	3671.3
11°	3728.5
12°	3788.9
13°	3846.1
14°	3898.6
15°	3939.9
16°	3970.1
17°	3990.8
18°	4000.3
19°	3998.7
20°	3987.6
21°	3968.5
22°	3944.7
23°	3912.9
24°	3876.3
25°	3831.8
26°	3779.4
27°	3712.6
28°	3633.2
29°	3541.0
30°	3434.5
32.5°	3115.0
35°	2724.1
37.5°	2269.5
40°	1773.7
42.5°	1311.2
45°	937.7
47.5°	664.3
50°	457.7
52.5°	292.4
55°	168.5
57.5°	84.2
60°	36.6
62.5°	14.3
65°	7.9



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	4.8
70°	3.2
72.5°	3.2
75°	1.6
77.5°	1.6
80°	1.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)