

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: P245531

Luminaire Tested: **LSR8B50D010 EC8B50827 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-46)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50827 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4625.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

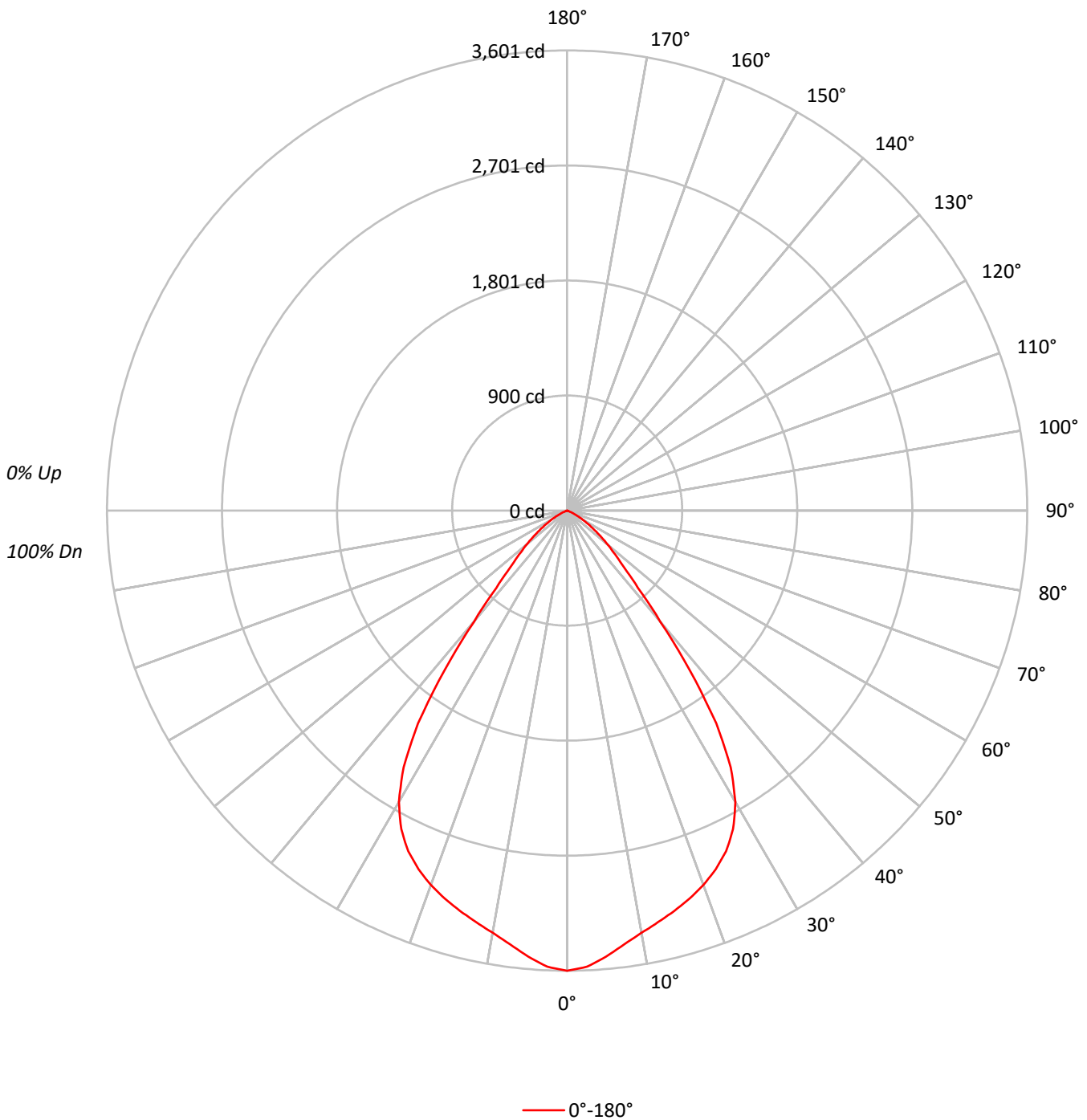
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64
6	83	73	66	61	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	65	59	56	63	59	55	54
8	74	63	56	52	73	63	56	52	61	56	51	60	55	51	59	55	51	49
9	70	59	52	48	69	58	52	48	57	52	48	57	51	47	56	51	47	46
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	111051
5°	108426
10°	105027
15°	103508
20°	102289
25°	100092
30°	93749
35°	76549
40°	45700
45°	27448
50°	19784
55°	13462
60°	8443
65°	4144
70°	1055
75°	393
80°	302
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.5	7.1
10°-20°	915.0	19.8
20°-30°	1343.7	29.1
30°-40°	1218.1	26.3
40°-50°	521.4	11.3
50°-60°	230.7	5.0
60°-70°	61.5	1.3
70°-80°	4.8	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°	2588.2	56.0
0°-40°	3806.3	82.3
0°-60°	4558.4	98.6
0°-90°	4625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4625.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3601	
5°	3503	330
15°	3242	915
25°	2942	1344
35°	2034	1218
45°	629	521
55°	250	231
65°	57	62
75°	3	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3601.3
2.5°	3572.9
5°	3502.8
7.5°	3422.6
10°	3354.2
12.5°	3297.4
15°	3242.3
17.5°	3183.9
20°	3117.1
22.5°	3038.6
25°	2941.8
27.5°	2811.6
30°	2632.9
32.5°	2382.5
35°	2033.5
37.5°	1576.1
40°	1135.3
42.5°	819.8
45°	629.4
47.5°	507.5
50°	412.4
52.5°	327.2
55°	250.4
57.5°	187.0
60°	136.9
62.5°	95.2
65°	56.8
67.5°	25.0
70°	11.7
72.5°	6.7
75°	3.3
77.5°	1.7
80°	1.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)