

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: P244283

Luminaire Tested: **LSR8B50D010 EC8B50940 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50940 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 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: 4916.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

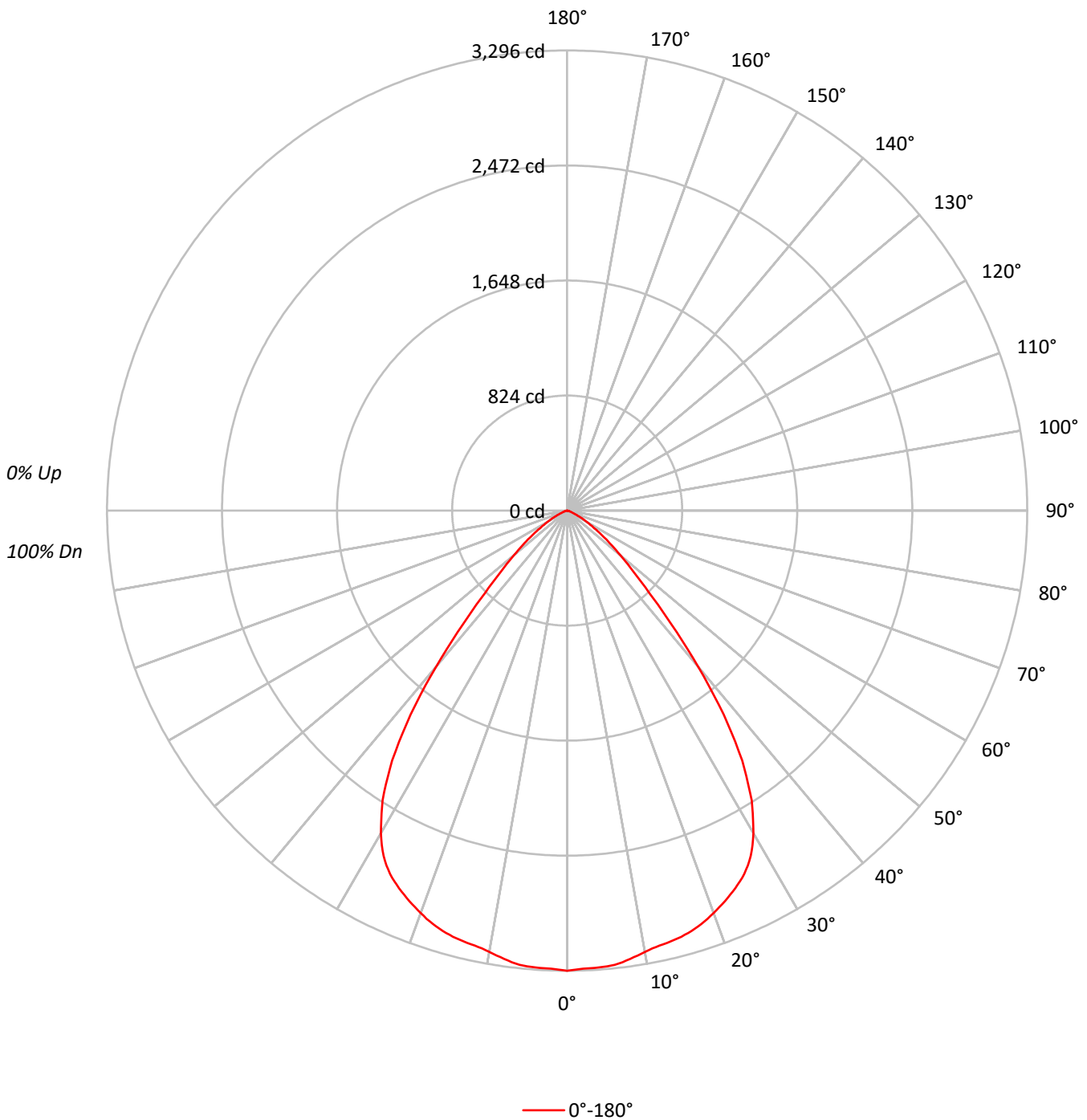
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	71	77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	63	62
6	82	71	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	101649
5°	101421
10°	100502
15°	100880
20°	100664
25°	99684
30°	95013
35°	82264
40°	58682
45°	36060
50°	23790
55°	15736
60°	10077
65°	5494
70°	2687
75°	1358
80°	764
85°	495



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.6	6.3
10°-20°	891.3	18.1
20°-30°	1341.3	27.3
30°-40°	1327.9	27.0
40°-50°	674.8	13.7
50°-60°	271.9	5.5
60°-70°	82.3	1.7
70°-80°	14.2	0.3
80°-90°	1.7	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°	2543.2	51.7
0°-40°	3871.1	78.7
0°-60°	4817.8	98.0
0°-90°	4916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4916.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3296	
5°	3276	311
15°	3160	891
25°	2930	1341
35°	2185	1328
45°	827	675
55°	293	272
65°	75	82
75°	11	14
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3296.4
1°	3289.3
2°	3283.6
3°	3282.2
4°	3280.7
5°	3276.5
6°	3270.8
7°	3259.4
8°	3242.4
9°	3226.8
10°	3209.7
11°	3195.5
12°	3185.5
13°	3178.4
14°	3169.9
15°	3160.0
16°	3147.2
17°	3131.6
18°	3113.1
19°	3091.8
20°	3067.6
21°	3042.0
22°	3016.5
23°	2989.5
24°	2961.1
25°	2929.8
26°	2895.7
27°	2851.6
28°	2800.5
29°	2739.4
30°	2668.4
32.5°	2460.9
35°	2185.3
37.5°	1841.4
40°	1457.8
42.5°	1101.2
45°	826.9
47.5°	632.3
50°	495.9
52.5°	385.1
55°	292.7
57.5°	217.4
60°	163.4
62.5°	116.5
65°	75.3



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	46.9
70°	29.8
72.5°	18.5
75°	11.4
77.5°	7.1
80°	4.3
82.5°	2.8
85°	1.4
87.5°	0.0
90°	0.0

(END OF REPORT)