

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: P244325

Luminaire Tested: **LSR8B50D010 EC8B50840 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244325
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 EC8B50840 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4954.0 lumens
Efficiency: N/A
Efficacy: 93.5 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

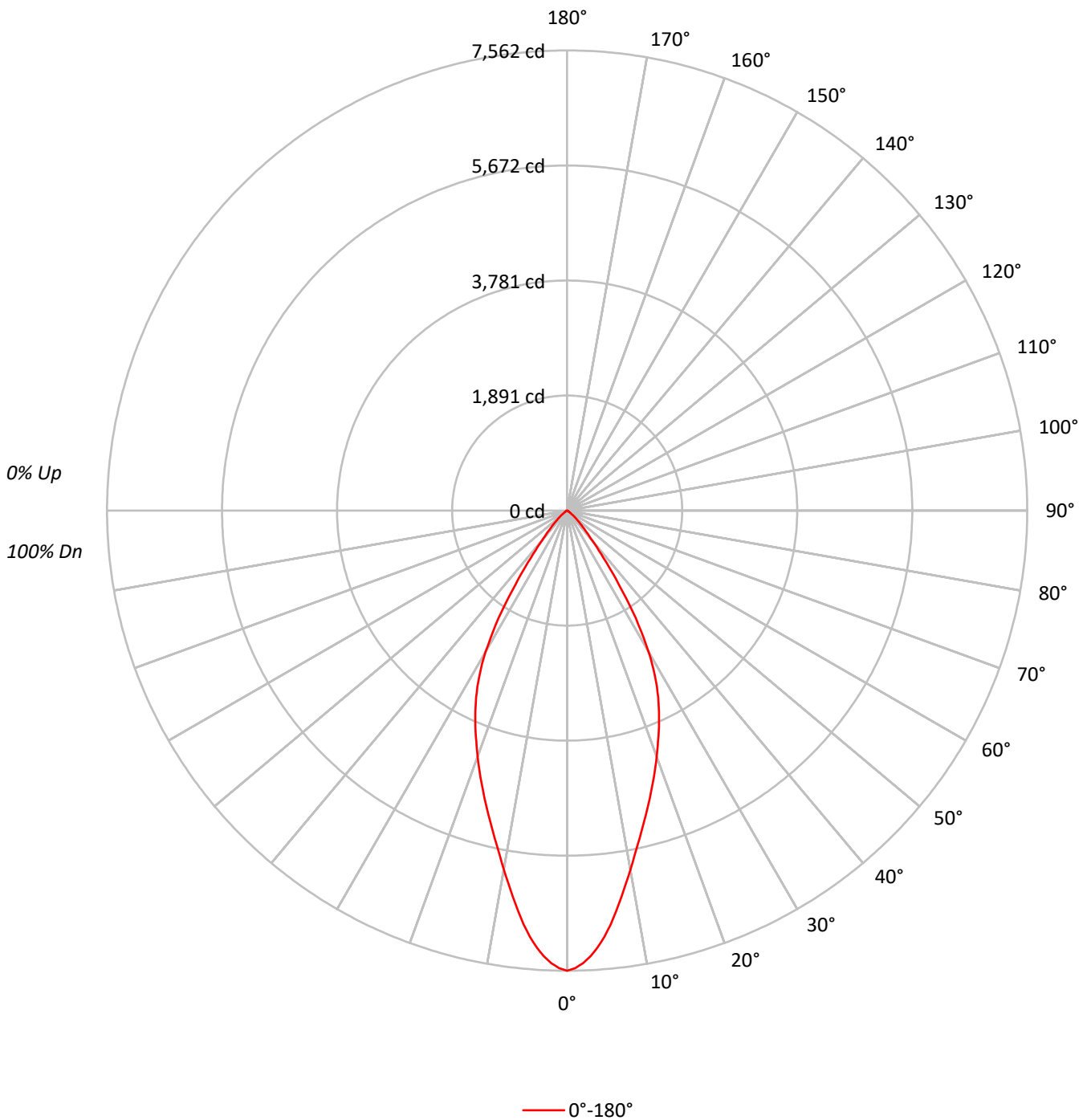
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	233193
5°	217511
10°	187496
15°	162264
20°	141155
25°	121306
30°	95316
35°	55612
40°	25658
45°	13279
50°	6663
55°	3236
60°	1653
65°	978
70°	451
75°	393
80°	302
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.9	12.8
10°-20°	1421.2	28.7
20°-30°	1615.8	32.6
30°-40°	948.9	19.2
40°-50°	254.7	5.1
50°-60°	60.4	1.2
60°-70°	13.8	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°	3672.9	74.1
0°-40°	4621.8	93.3
0°-60°	4936.9	99.7
0°-90°	4954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4954.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7562	
5°	7027	636
15°	5083	1421
25°	3565	1616
35°	1477	949
45°	304	255
55°	60	60
65°	13	14
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7562.3
1°	7520.5
2°	7443.5
3°	7334.8
4°	7194.2
5°	7026.9
6°	6837.9
7°	6623.7
8°	6409.6
9°	6193.7
10°	5988.0
11°	5787.2
12°	5598.1
13°	5422.5
14°	5246.8
15°	5082.8
16°	4922.2
17°	4763.3
18°	4609.3
19°	4453.7
20°	4301.5
21°	4149.2
22°	4003.7
23°	3859.8
24°	3712.6
25°	3565.3
26°	3413.1
27°	3247.5
28°	3073.5
29°	2882.7
30°	2676.9
32.5°	2099.7
35°	1477.3
37.5°	973.7
40°	637.4
42.5°	440.0
45°	304.5
47.5°	209.1
50°	138.9
52.5°	90.3
55°	60.2
57.5°	40.2
60°	26.8
62.5°	18.4
65°	13.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	8.4
70°	5.0
72.5°	3.3
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)