

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: P243917

Luminaire Tested: **LSR8B50D010 EC8B50935 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-10)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50935 8LBN0LI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4476.0 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.32
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

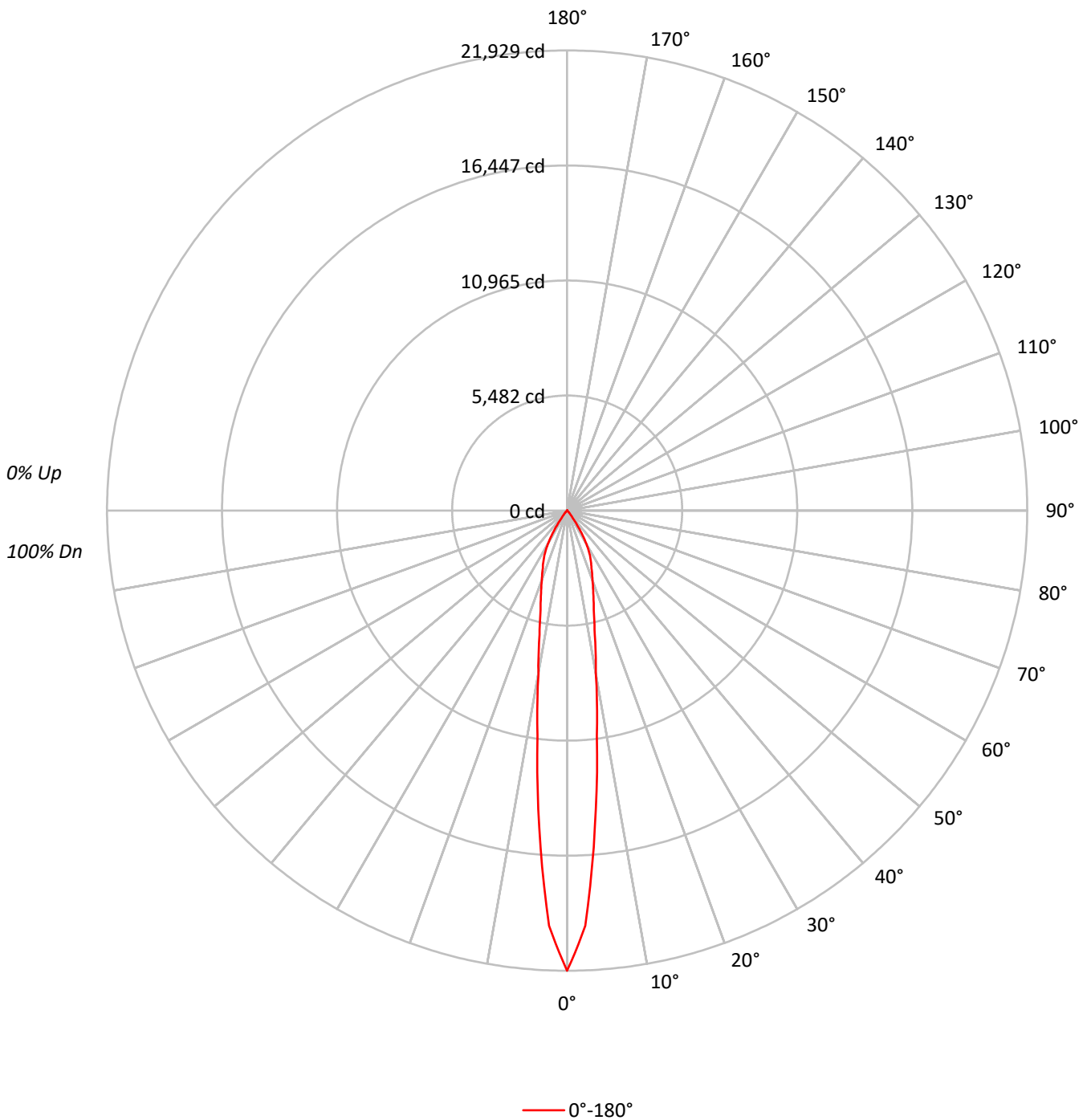
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	110	108	112	110	108	106	106	104	103		102	101	100		99	98	97	95
2	110	106	102	100	108	104	101	99	101	99	96		98	96	94		95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91		94	92	89		92	90	88	87
4	102	95	91	87	100	94	90	87	92	89	86		90	87	85		89	86	84	83
5	98	91	86	83	96	90	86	82	88	85	82		87	84	81		85	83	80	79
6	94	87	82	79	93	86	82	78	85	81	78		83	80	77		82	79	77	76
7	91	83	78	75	90	83	78	75	81	77	74		80	77	74		79	76	74	72
8	88	80	75	72	86	79	75	71	78	74	71		77	74	71		76	73	71	70
9	85	77	72	69	84	76	72	69	75	71	68		75	71	68		74	70	68	67
10	82	74	69	66	81	73	69	66	73	69	66		72	68	66		71	68	65	64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	676222
5°	469673
10°	247152
15°	156374
20°	116209
25°	91362
30°	65776
35°	28229
40°	9838
45°	3772
50°	873
55°	328
60°	0
65°	445
70°	135
75°	357
80°	533
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1216.4	27.2
10°-20°	1413.3	31.6
20°-30°	1219.8	27.3
30°-40°	529.2	11.8
40°-50°	82.9	1.9
50°-60°	6.0	0.1
60°-70°	3.2	0.1
70°-80°	3.4	0.1
80°-90°	1.6	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°	3849.6	86.0
0°-40°	4378.8	97.8
0°-60°	4467.7	99.8
0°-90°	4476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4476.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	21929	
5°	15173	###
15°	4898	1413
25°	2685	1220
35°	750	529
45°	86	83
55°	6	6
65°	6	3
75°	3	3
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	21929.4
2.5°	19802.8
5°	15173.2
7.5°	10821.3
10°	7893.2
12.5°	6056.5
15°	4898.3
17.5°	4119.6
20°	3541.3
22.5°	3048.0
25°	2685.2
27.5°	2302.7
30°	1847.3
32.5°	1284.2
35°	749.9
37.5°	418.9
40°	244.4
42.5°	151.8
45°	86.5
47.5°	69.8
50°	18.2
52.5°	9.1
55°	6.1
57.5°	3.0
60°	0.0
62.5°	1.5
65°	6.1
67.5°	4.6
70°	1.5
72.5°	7.6
75°	3.0
77.5°	0.0
80°	3.0
82.5°	1.5
85°	0.0
87.5°	3.0
90°	0.0

(END OF REPORT)