

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: P250450

Luminaire Tested: **LSR8B90D010 EC8B909730 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B909730 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4101.0 lumens
Efficiency: N/A
Efficacy: 47.6 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

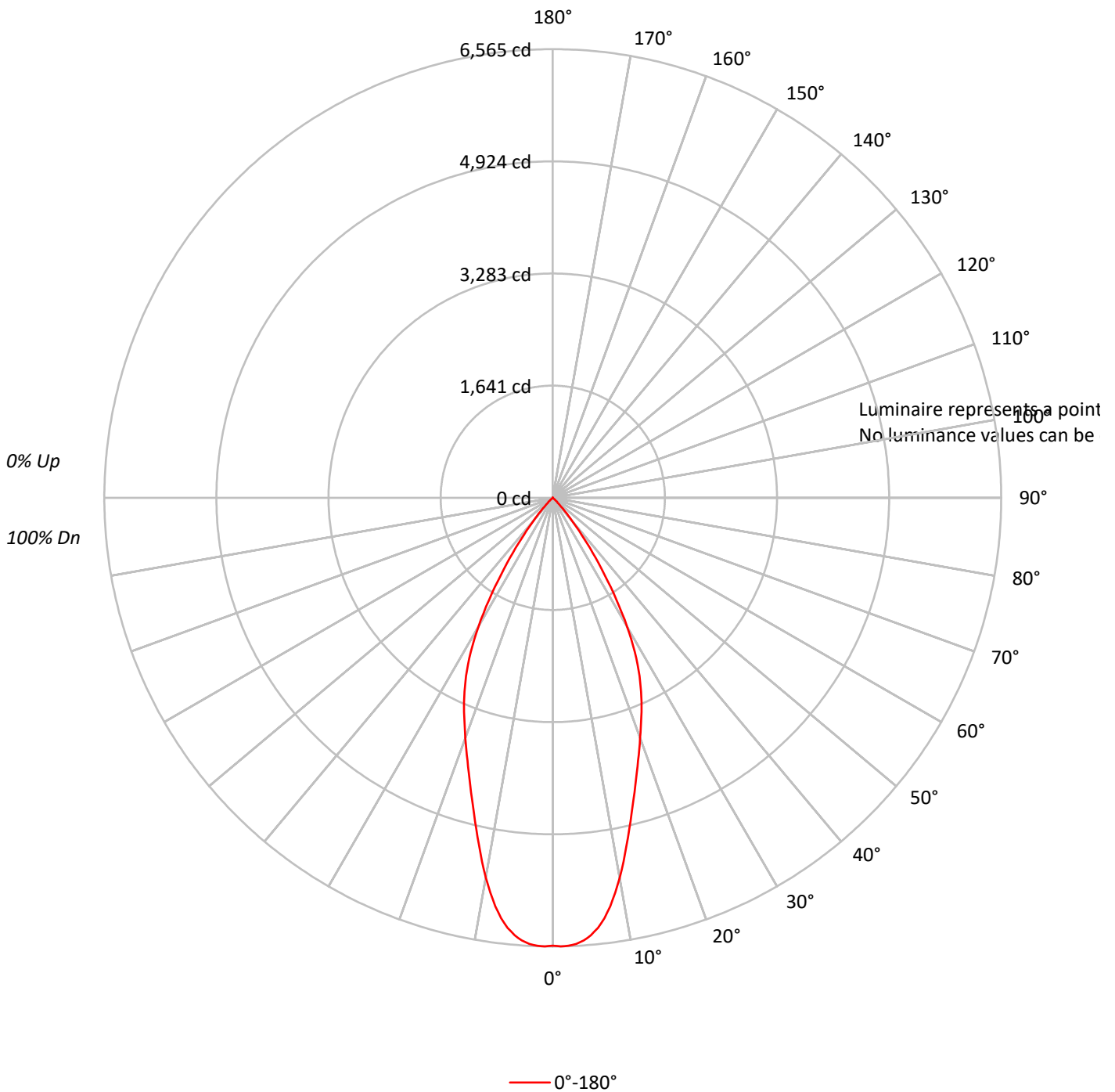
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	112	109	107	105	105	104	102		101	100	99		98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94		96	94	92		94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88		92	89	86		89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82		87	84	81		85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77		83	79	76		81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72		79	75	71		77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68		75	71	67		74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64		71	67	64		70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61		68	63	60		67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57		65	60	57		64	60	57	56

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.3	14.3
10°-20°	1278.6	31.2
20°-30°	1372.6	33.5
30°-40°	741.9	18.1
40°-50°	115.8	2.8
50°-60°	3.2	0.1
60°-70°	0.8	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	3239.4	79.0
0°-40°	3981.3	97.1
0°-60°	4100.2	100.0
0°-90°	4101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4101.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6553	
5°	6424	588
15°	4565	1279
25°	3043	1373
35°	1165	742
45°	107	116
55°	0	3
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6553.0
1°	6565.4
2°	6559.3
3°	6536.8
4°	6493.6
5°	6423.7
6°	6327.5
7°	6198.1
8°	6036.0
9°	5849.5
10°	5642.1
11°	5424.6
12°	5198.9
13°	4973.4
14°	4764.0
15°	4565.0
16°	4382.4
17°	4205.9
18°	4041.8
19°	3888.1
20°	3740.2
21°	3596.6
22°	3461.1
23°	3325.9
24°	3184.3
25°	3042.6
26°	2899.0
27°	2734.9
28°	2554.3
29°	2369.9
30°	2176.9
31°	1969.7
32°	1762.3
33°	1557.2
34°	1350.0
35°	1165.3
37.5°	744.7
40°	430.9
42.5°	229.9
45°	106.8
47.5°	57.6
50°	18.6
52.5°	2.1
55°	0.0
57.5°	2.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.1
62.5°	0.0
65°	0.0
67.5°	2.1
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)