

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: P250296

Luminaire Tested: **LSR8B90D010 EC8B90830 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250296
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 EC8B90830 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7348.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

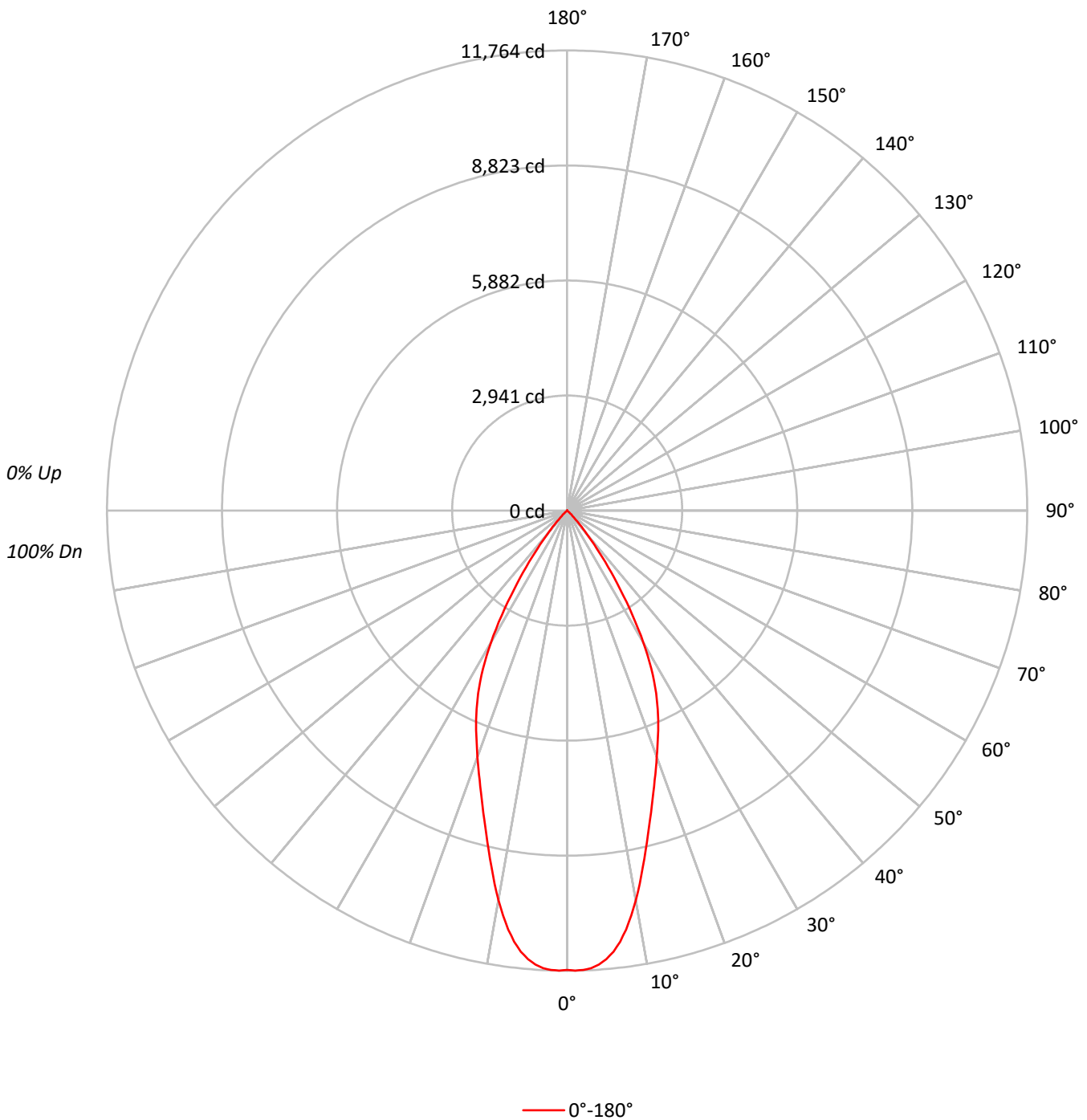
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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):

	0°
0°	362062
5°	356276
10°	316543
15°	261120
20°	219915
25°	185486
30°	138880
35°	78597
40°	31076
45°	8342
50°	1597
55°	0
60°	228
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1054.0	14.3
10°-20°	2290.9	31.2
20°-30°	2459.4	33.5
30°-40°	1329.2	18.1
40°-50°	207.4	2.8
50°-60°	5.7	0.1
60°-70°	1.4	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°	5804.3	79.0
0°-40°	7133.5	97.1
0°-60°	7346.6	100.0
0°-90°	7348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7348.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11741	
5°	11510	###
15°	8179	2291
25°	5452	2459
35°	2088	1329
45°	191	207
55°	0	6
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	11741.4
1°	11763.7
2°	11752.6
3°	11712.4
4°	11635.0
5°	11509.8
6°	11337.4
7°	11105.4
8°	10815.1
9°	10480.9
10°	10109.3
11°	9719.6
12°	9315.2
13°	8911.2
14°	8535.8
15°	8179.4
16°	7852.2
17°	7536.0
18°	7241.9
19°	6966.5
20°	6701.6
21°	6444.2
22°	6201.4
23°	5959.1
24°	5705.5
25°	5451.6
26°	5194.2
27°	4900.3
28°	4576.6
29°	4246.2
30°	3900.4
31°	3529.2
32°	3157.6
33°	2790.1
34°	2418.9
35°	2087.9
37.5°	1334.4
40°	772.0
42.5°	411.9
45°	191.3
47.5°	103.2
50°	33.3
52.5°	3.7
55°	0.0
57.5°	3.7



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CANDELA DISTRIBUTION (continued):

	0°
60°	3.7
62.5°	0.0
65°	0.0
67.5°	3.7
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)