

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: P250100

Luminaire Tested: **LSR8B90D010 EC8B90950 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90950 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8077.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

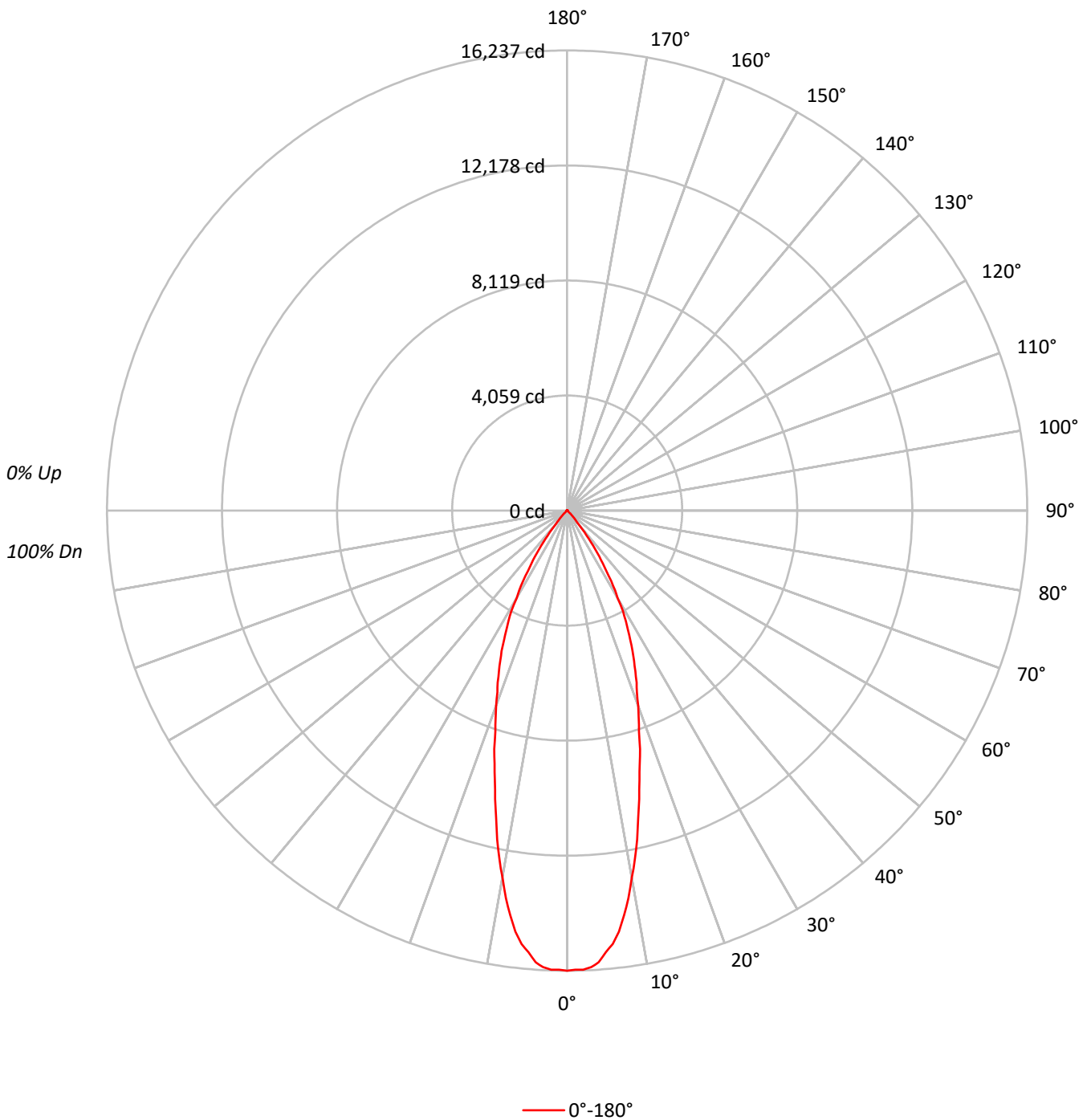
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	500680
5°	484187
10°	411769
15°	314280
20°	240188
25°	186129
30°	126945
35°	74584
40°	22804
45°	8970
50°	134
55°	151
60°	173
65°	416
70°	766
75°	679
80°	497
85°	3007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1418.0	17.6
10°-20°	2747.8	34.0
20°-30°	2473.9	30.6
30°-40°	1224.0	15.2
40°-50°	186.2	2.3
50°-60°	7.6	0.1
60°-70°	9.8	0.1
70°-80°	3.7	0.0
80°-90°	5.8	0.1
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°	6639.8	82.2
0°-40°	7863.8	97.4
0°-60°	8057.6	99.8
0°-90°	8077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8077.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16237	
5°	15642	###
15°	9845	2748
25°	5470	2474
35°	1981	1224
45°	206	186
55°	3	8
65°	6	10
75°	6	4
85°	8	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16236.7
1°	16202.9
2°	16211.3
3°	16129.6
4°	15980.3
5°	15642.1
6°	15382.7
7°	14971.3
8°	14418.9
9°	13843.9
10°	13150.5
11°	12530.5
12°	11865.4
13°	11129.8
14°	10495.7
15°	9844.6
16°	9289.3
17°	8799.0
18°	8195.8
19°	7753.3
20°	7319.4
21°	6868.4
22°	6538.6
23°	6155.3
24°	5803.0
25°	5470.5
26°	5078.7
27°	4726.5
28°	4410.7
29°	4064.1
30°	3565.2
31°	3283.5
32°	2928.3
33°	2539.3
34°	2243.4
35°	1981.3
37.5°	1254.1
40°	566.5
42.5°	386.1
45°	205.7
47.5°	115.5
50°	2.8
52.5°	11.3
55°	2.8
57.5°	17.0



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.8
62.5°	14.1
65°	5.7
67.5°	14.1
70°	8.5
72.5°	2.8
75°	5.7
77.5°	0.0
80°	2.8
82.5°	11.3
85°	8.5
87.5°	0.0
90°	0.0

(END OF REPORT)