

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: P249841

Luminaire Tested: **LSR8B90D010 EC8B90940 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90940 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7562.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

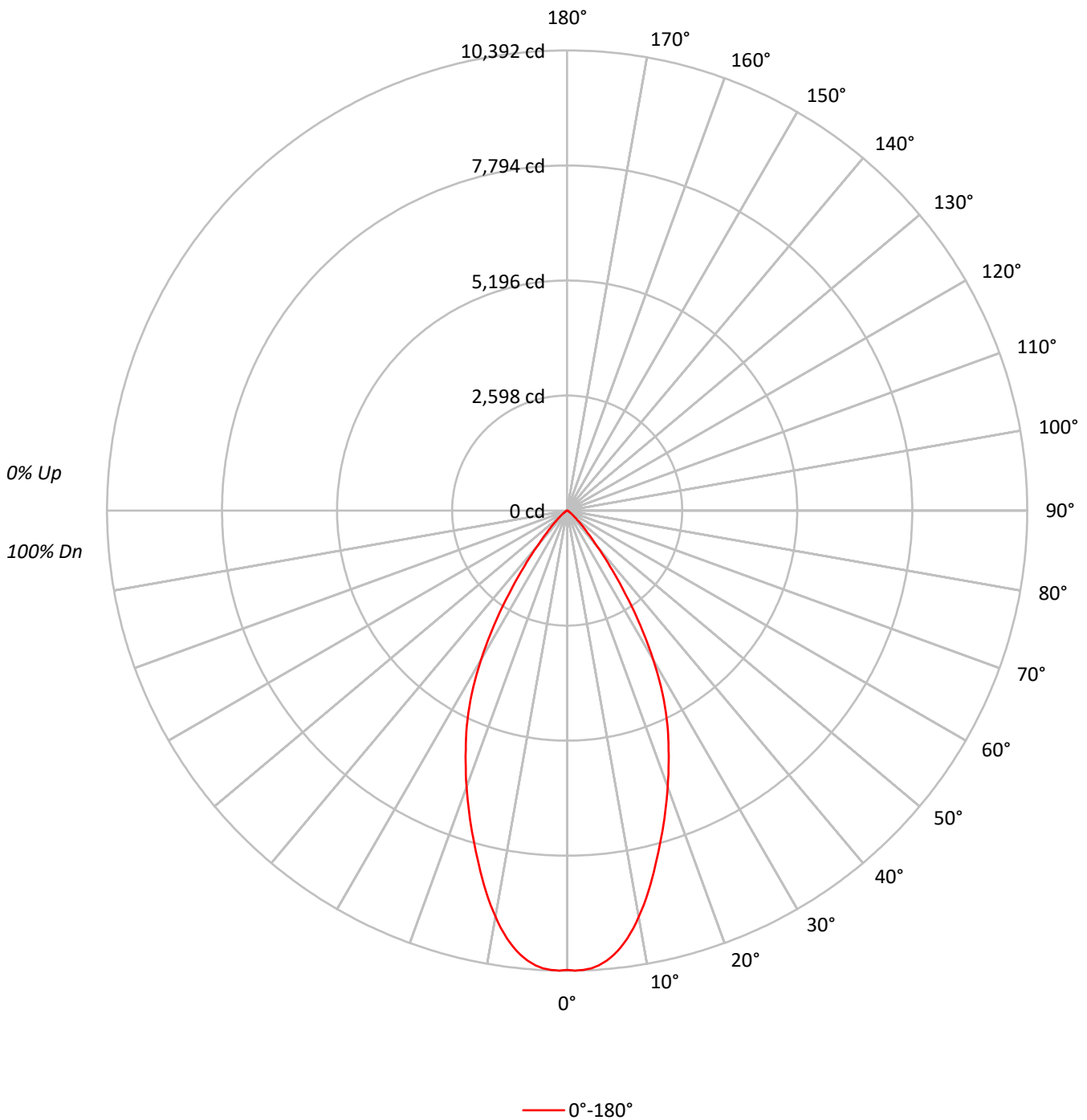
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	103	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	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80		85	82	79		83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	65	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	57		64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54		62	57	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	319828
5°	315899
10°	291750
15°	254397
20°	217917
25°	182410
30°	138774
35°	86025
40°	42440
45°	20200
50°	9820
55°	4817
60°	2997
65°	2050
70°	1154
75°	917
80°	906
85°	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	945.8	12.5
10°-20°	2220.4	29.4
20°-30°	2426.8	32.1
30°-40°	1444.2	19.1
40°-50°	396.1	5.2
50°-60°	89.8	1.2
60°-70°	27.7	0.4
70°-80°	8.4	0.1
80°-90°	2.8	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°	5593.0	74.0
0°-40°	7037.2	93.1
0°-60°	7523.1	99.5
0°-90°	7562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7562.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10372	
5°	10205	946
15°	7969	2220
25°	5361	2427
35°	2285	1444
45°	463	396
55°	90	90
65°	28	28
75°	8	8
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10371.8
1°	10392.2
2°	10379.5
3°	10353.9
4°	10295.0
5°	10205.4
6°	10090.3
7°	9936.7
8°	9757.6
9°	9550.3
10°	9317.5
11°	9069.2
12°	8803.1
13°	8529.3
14°	8245.2
15°	7968.8
16°	7697.6
17°	7431.4
18°	7165.3
19°	6899.2
20°	6640.7
22.5°	5990.7
25°	5361.2
27.5°	4667.7
30°	3897.4
32.5°	3070.8
35°	2285.2
37.5°	1589.2
40°	1054.3
42.5°	690.9
45°	463.2
47.5°	307.1
50°	204.7
52.5°	125.4
55°	89.6
57.5°	64.0
60°	48.6
62.5°	35.8
65°	28.1
67.5°	17.9
70°	12.8
72.5°	10.2
75°	7.7
77.5°	5.1
80°	5.1



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	2.6
85°	2.6
87.5°	2.6
90°	0.0

(END OF REPORT)