

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: P249862

Luminaire Tested: **LSR8B90D010 EC8B909730 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249862
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 EC8B909730 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6254.0 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

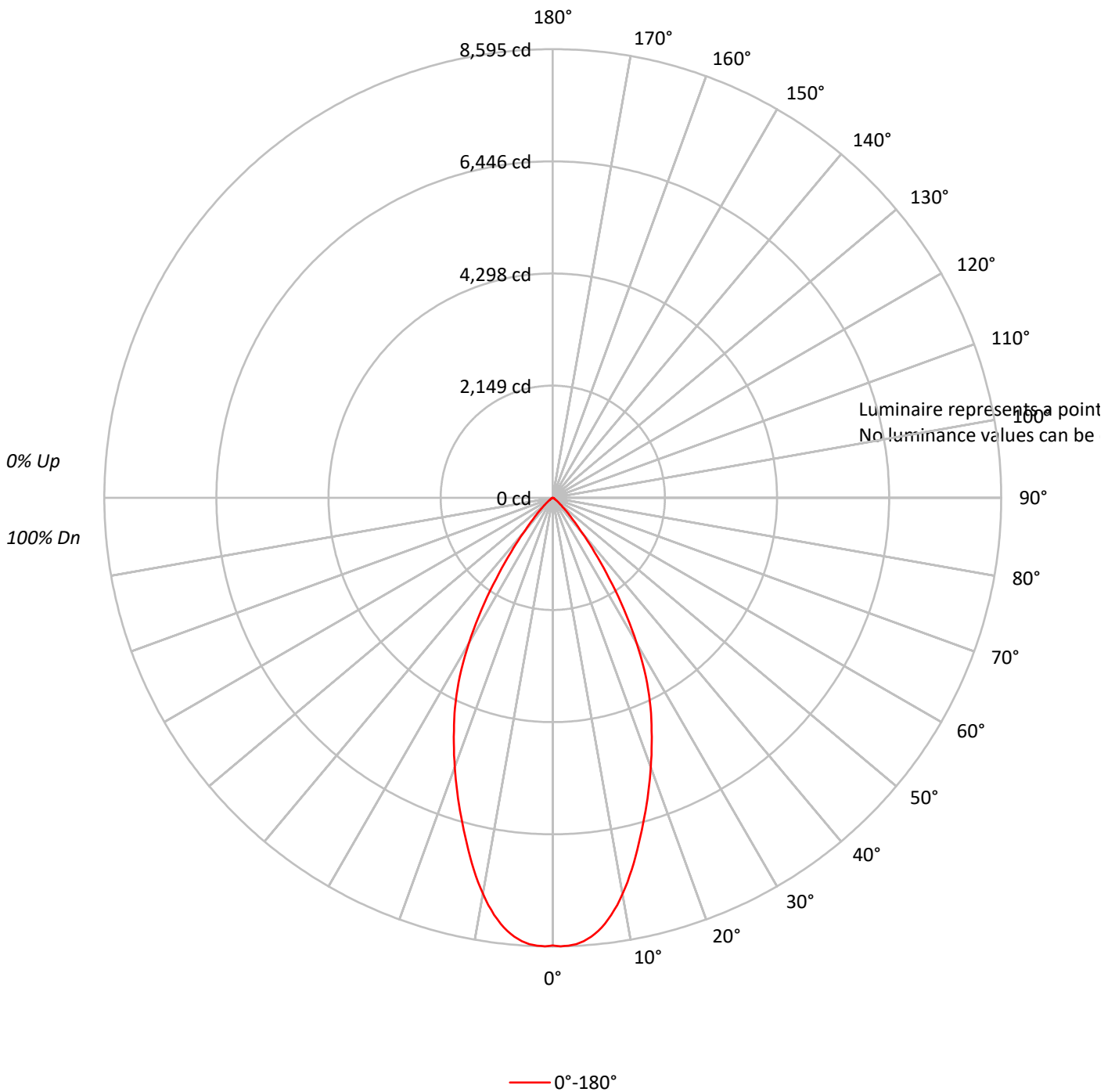
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	782.2	12.5
10°-20°	1836.4	29.4
20°-30°	2007.1	32.1
30°-40°	1194.4	19.1
40°-50°	327.6	5.2
50°-60°	74.2	1.2
60°-70°	22.9	0.4
70°-80°	7.0	0.1
80°-90°	2.3	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°	4625.6	74.0
0°-40°	5820.0	93.1
0°-60°	6221.8	99.5
0°-90°	6254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6254.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8578	
5°	8440	782
15°	6590	1836
25°	4434	2007
35°	1890	1194
45°	383	328
55°	74	74
65°	23	23
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8577.8
1°	8594.7
2°	8584.1
3°	8563.0
4°	8514.3
5°	8440.2
6°	8345.0
7°	8218.0
8°	8069.8
9°	7898.4
10°	7705.8
11°	7500.5
12°	7280.4
13°	7054.0
14°	6819.0
15°	6590.5
16°	6366.1
17°	6146.0
18°	5925.9
19°	5705.8
20°	5492.1
22.5°	4954.5
25°	4433.9
27.5°	3860.3
30°	3223.3
32.5°	2539.7
35°	1889.9
37.5°	1314.3
40°	872.0
42.5°	571.4
45°	383.1
47.5°	254.0
50°	169.3
52.5°	103.7
55°	74.1
57.5°	52.9
60°	40.2
62.5°	29.6
65°	23.3
67.5°	14.8
70°	10.6
72.5°	8.5
75°	6.3
77.5°	4.2
80°	4.2



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	2.1
85°	2.1
87.5°	2.1
90°	0.0

(END OF REPORT)