

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: P249925

Luminaire Tested: **LSR8B90D010 EC8B90940 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90940 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG 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: 8164.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

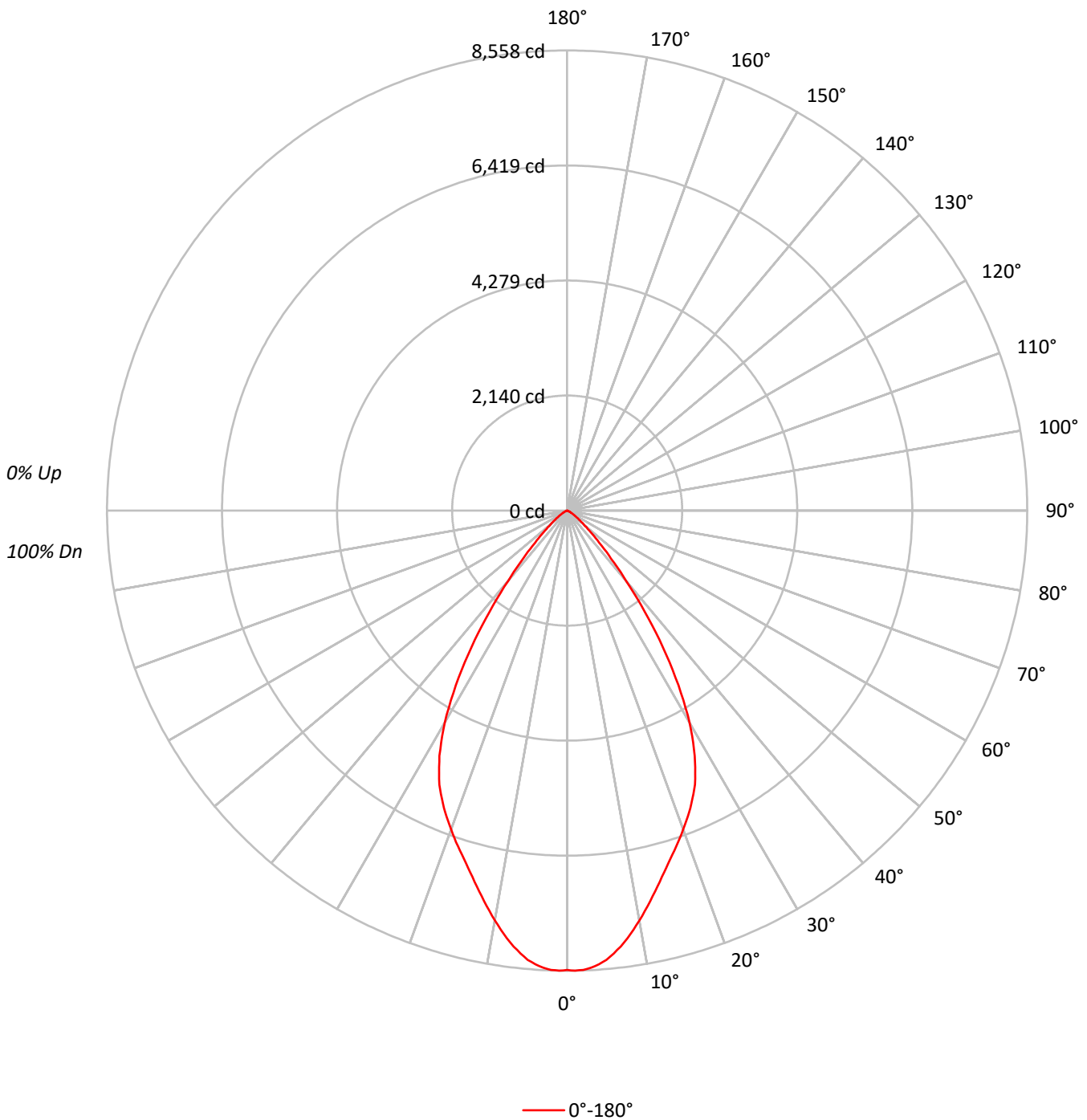
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49	57	53	49	57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	263499
5°	259618
10°	242289
15°	222396
20°	207134
25°	191372
30°	162285
35°	116746
40°	68774
45°	36754
50°	19180
55°	10817
60°	5970
65°	3532
70°	1605
75°	905
80°	444
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	779.0	9.5
10°-20°	1960.0	24.0
20°-30°	2544.5	31.2
30°-40°	1920.6	23.5
40°-50°	702.8	8.6
50°-60°	196.5	2.4
60°-70°	51.6	0.6
70°-80°	8.6	0.1
80°-90°	0.3	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°	5283.6	64.7
0°-40°	7204.1	88.2
0°-60°	8103.4	99.3
0°-90°	8164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8164.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8545	
5°	8387	779
15°	6966	1960
25°	5625	2545
35°	3101	1921
45°	843	703
55°	201	196
65°	48	52
75°	8	9
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8545.1
1°	8557.8
2°	8547.6
3°	8514.5
4°	8458.5
5°	8387.2
6°	8282.8
7°	8168.3
8°	8035.8
9°	7890.7
10°	7737.9
11°	7585.2
12°	7427.3
13°	7266.9
14°	7114.1
15°	6966.4
16°	6826.4
17°	6691.4
18°	6569.2
19°	6441.9
20°	6312.1
22.5°	5988.7
25°	5624.6
27.5°	5143.3
30°	4557.7
32.5°	3852.4
35°	3101.3
37.5°	2368.0
40°	1708.5
42.5°	1209.5
45°	842.8
47.5°	593.3
50°	399.8
52.5°	292.8
55°	201.2
57.5°	145.1
60°	96.8
62.5°	71.3
65°	48.4
67.5°	33.1
70°	17.8
72.5°	12.7
75°	7.6
77.5°	2.5
80°	2.5



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)