

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: P249926

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249926
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: LSR8B100D010 EC8B100940 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: 9419.0 lumens
Efficiency: N/A
Efficacy: 88.6 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

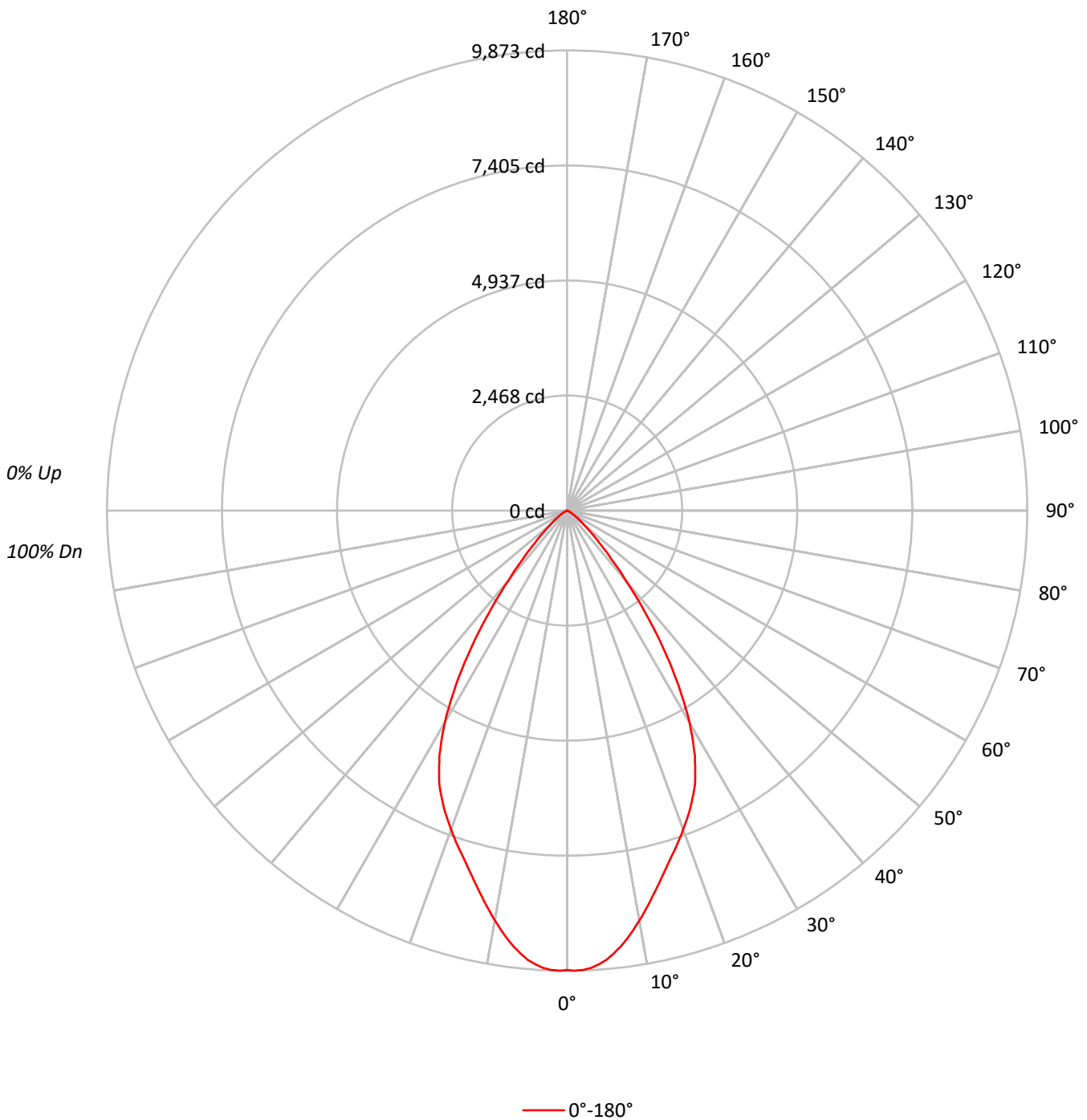
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	304006
5°	299527
10°	279535
15°	256584
20°	238974
25°	220789
30°	187234
35°	134691
40°	79345
45°	42406
50°	22125
55°	12478
60°	6883
65°	4071
70°	1857
75°	1048
80°	515
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	898.8	9.5
10°-20°	2261.3	24.0
20°-30°	2935.7	31.2
30°-40°	2215.8	23.5
40°-50°	810.8	8.6
50°-60°	226.6	2.4
60°-70°	59.6	0.6
70°-80°	10.0	0.1
80°-90°	0.4	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°	6095.8	64.7
0°-40°	8311.6	88.2
0°-60°	9349.0	99.3
0°-90°	9419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9419.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9859	
5°	9676	899
15°	8037	2261
25°	6489	2936
35°	3578	2216
45°	972	811
55°	232	227
65°	56	60
75°	9	10
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9858.7
1°	9873.4
2°	9861.6
3°	9823.4
4°	9758.8
5°	9676.5
6°	9556.1
7°	9423.9
8°	9271.1
9°	9103.7
10°	8927.4
11°	8751.2
12°	8569.1
13°	8384.0
14°	8207.7
15°	8037.3
16°	7875.8
17°	7720.1
18°	7579.1
19°	7432.2
20°	7282.4
22.5°	6909.3
25°	6489.2
27.5°	5934.0
30°	5258.4
32.5°	4444.6
35°	3578.0
37.5°	2732.0
40°	1971.1
42.5°	1395.4
45°	972.4
47.5°	684.5
50°	461.2
52.5°	337.8
55°	232.1
57.5°	167.4
60°	111.6
62.5°	82.3
65°	55.8
67.5°	38.2
70°	20.6
72.5°	14.7
75°	8.8
77.5°	2.9
80°	2.9



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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)