

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: P250479

Luminaire Tested: **LSR8B100D010 EC8B100840 8LBM0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14005)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100840 8LBM0GPH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9456.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.87
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

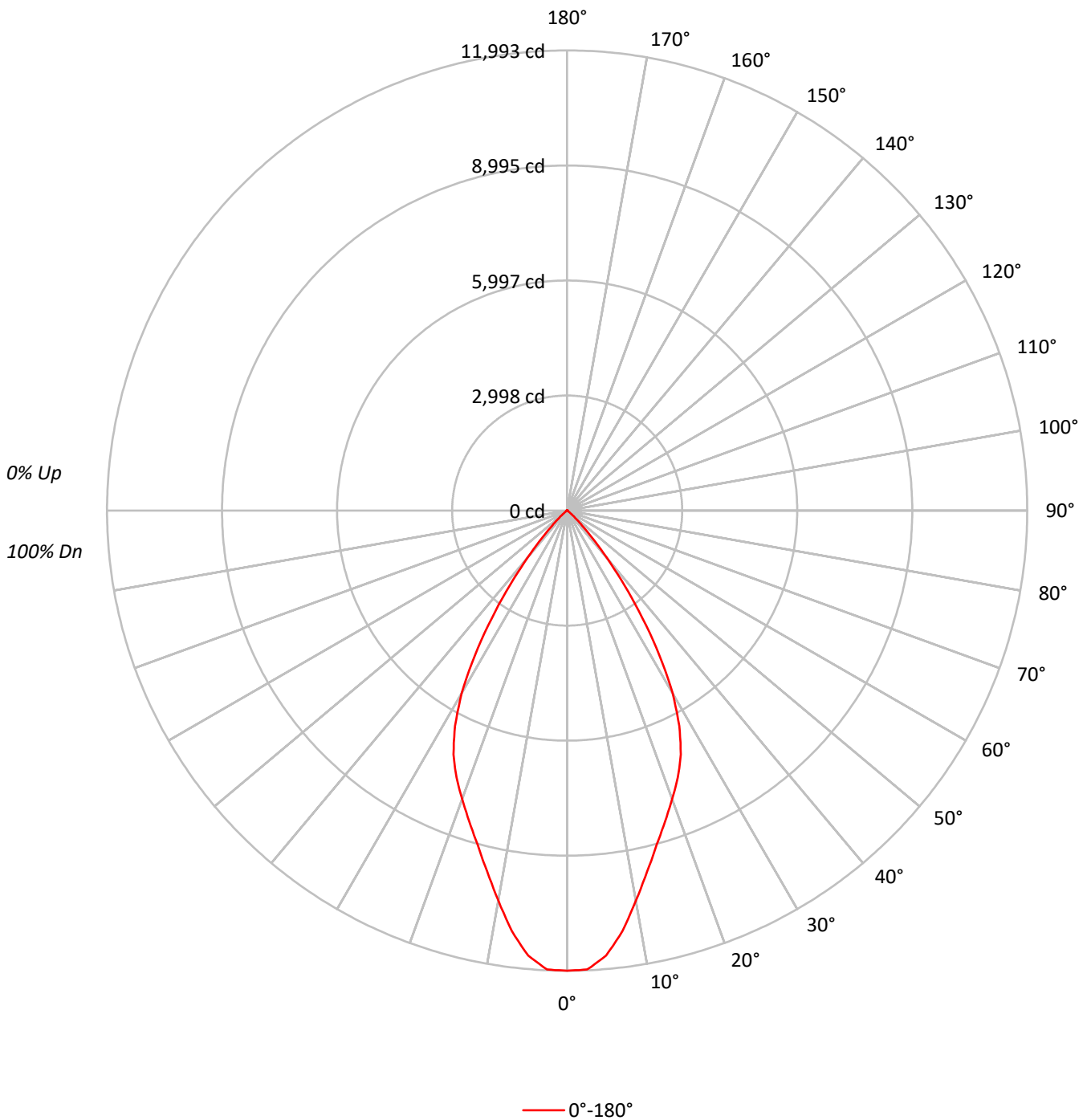
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	79	73	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66
7	84	75	69	65	82	74	68	64	73	68	64	72	67	64	70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	369811
5°	360461
10°	323134
15°	287796
20°	262542
25°	238536
30°	195595
35°	128724
40°	64213
45°	23902
50°	7258
55°	876
60°	506
65°	0
70°	370
75°	1465
80°	0
85°	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1067.7	11.3
10°-20°	2538.6	26.8
20°-30°	3162.6	33.4
30°-40°	2133.3	22.6
40°-50°	504.4	5.3
50°-60°	36.9	0.4
60°-70°	6.6	0.1
70°-80°	4.9	0.1
80°-90°	1.1	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°	6768.9	71.6
0°-40°	8902.1	94.1
0°-60°	9443.4	99.9
0°-90°	9456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9456.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11993	
5°	11645	###
15°	9015	2539
25°	7011	3163
35°	3420	2133
45°	548	504
55°	16	37
65°	0	7
75°	12	5
85°	4	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11992.7
2.5°	11972.3
5°	11645.0
7.5°	11051.9
10°	10319.8
12.5°	9628.5
15°	9015.0
17.5°	8487.3
20°	8000.6
22.5°	7534.3
25°	7010.8
27.5°	6327.7
30°	5493.2
32.5°	4483.0
35°	3419.5
37.5°	2446.0
40°	1595.2
42.5°	953.1
45°	548.1
47.5°	306.8
50°	151.3
52.5°	69.6
55°	16.3
57.5°	4.1
60°	8.2
62.5°	12.3
65°	0.0
67.5°	8.2
70°	4.1
72.5°	4.1
75°	12.3
77.5°	0.0
80°	0.0
82.5°	0.0
85°	4.1
87.5°	0.0
90°	0.0

(END OF REPORT)