

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: P250458

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBM0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250458
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 EC8B100827 8LBM0GPH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8929.0 lumens
Efficiency: N/A
Efficacy: 84.0 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

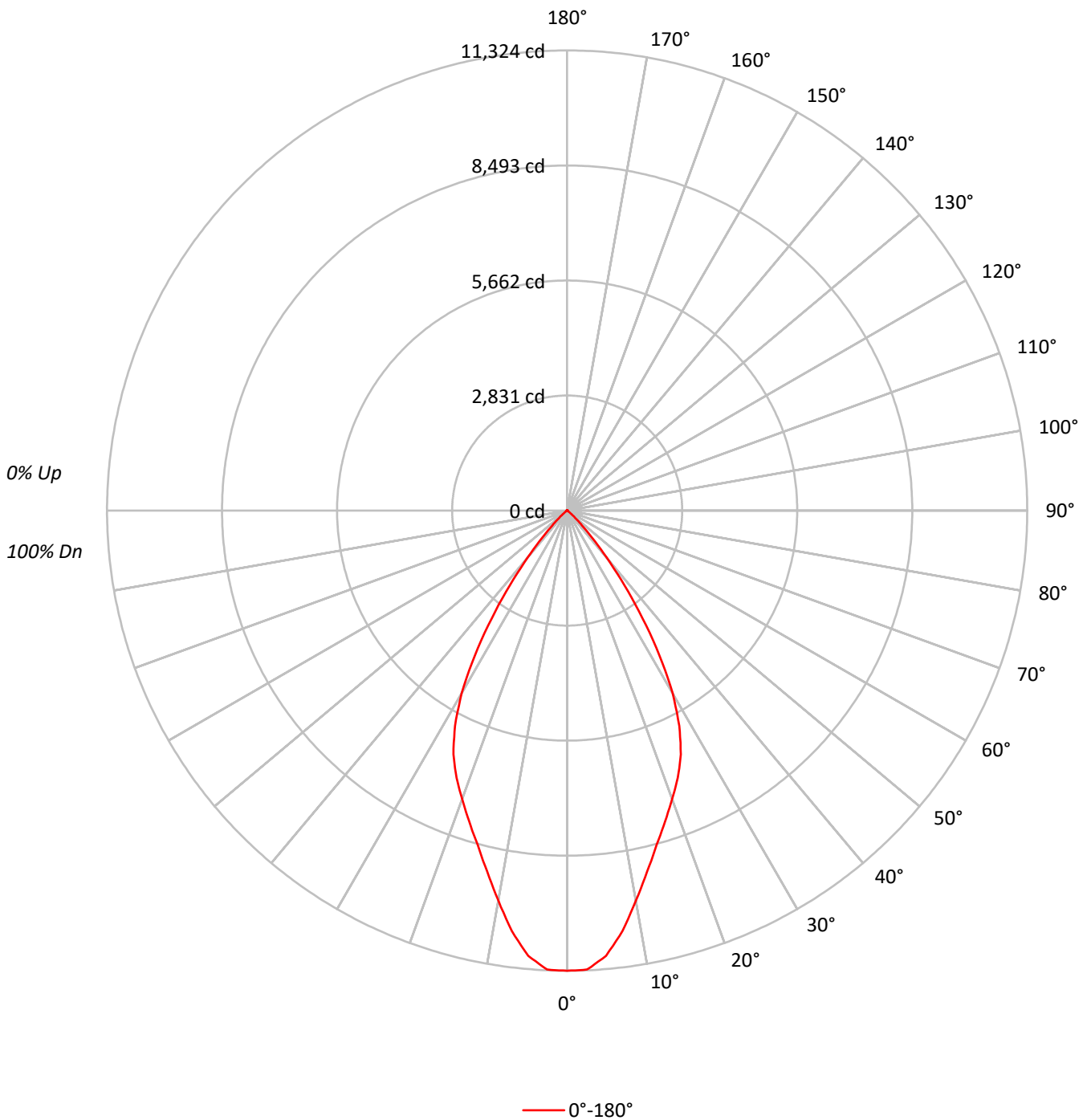
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	349200
5°	340371
10°	305126
15°	271757
20°	247910
25°	225243
30°	184696
35°	121549
40°	60635
45°	22568
50°	6855
55°	828
60°	475
65°	0
70°	352
75°	1382
80°	0
85°	1380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1008.2	11.3
10°-20°	2397.1	26.8
20°-30°	2986.4	33.4
30°-40°	2014.4	22.6
40°-50°	476.3	5.3
50°-60°	34.8	0.4
60°-70°	6.2	0.1
70°-80°	4.6	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°	6391.6	71.6
0°-40°	8406.0	94.1
0°-60°	8917.2	99.9
0°-90°	8929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8929.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11324	
5°	10996	###
15°	8513	2397
25°	6620	2986
35°	3229	2014
45°	518	476
55°	15	35
65°	0	6
75°	12	5
85°	4	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11324.3
2.5°	11305.0
5°	10996.0
7.5°	10436.0
10°	9744.7
12.5°	9091.9
15°	8512.6
17.5°	8014.3
20°	7554.7
22.5°	7114.4
25°	6620.1
27.5°	5975.1
30°	5187.1
32.5°	4233.1
35°	3228.9
37.5°	2309.7
40°	1506.3
42.5°	900.0
45°	517.5
47.5°	289.7
50°	142.9
52.5°	65.7
55°	15.4
57.5°	3.9
60°	7.7
62.5°	11.6
65°	0.0
67.5°	7.7
70°	3.9
72.5°	3.9
75°	11.6
77.5°	0.0
80°	0.0
82.5°	0.0
85°	3.9
87.5°	0.0
90°	0.0

(END OF REPORT)