

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: P250486

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBM0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250486
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 EC8B100850 8LBM0GPH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9641.0 lumens
Efficiency: N/A
Efficacy: 90.7 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

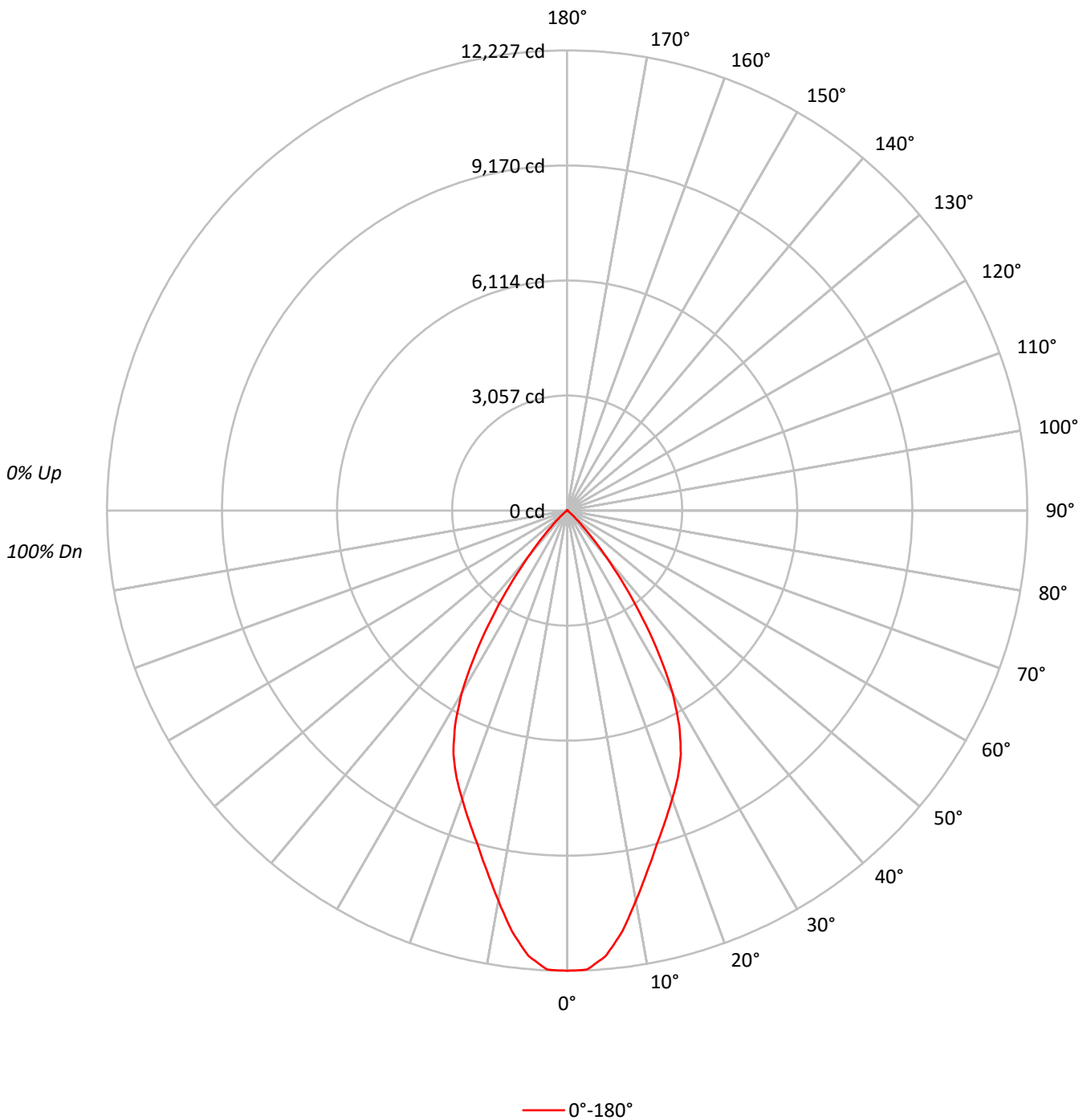
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	377045
5°	367512
10°	329456
15°	293427
20°	267678
25°	243201
30°	199422
35°	131243
40°	65469
45°	24369
50°	7402
55°	892
60°	518
65°	0
70°	379
75°	1489
80°	0
85°	1486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1088.6	11.3
10°-20°	2588.2	26.8
20°-30°	3224.5	33.4
30°-40°	2175.0	22.6
40°-50°	514.3	5.3
50°-60°	37.6	0.4
60°-70°	6.7	0.1
70°-80°	5.0	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°	6901.3	71.6
0°-40°	9076.3	94.1
0°-60°	9628.2	99.9
0°-90°	9641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9641.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12227	
5°	11873	###
15°	9191	2588
25°	7148	3224
35°	3486	2175
45°	559	514
55°	17	38
65°	0	7
75°	12	5
85°	4	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12227.3
2.5°	12206.5
5°	11872.8
7.5°	11268.1
10°	10521.7
12.5°	9816.9
15°	9191.4
17.5°	8653.3
20°	8157.1
22.5°	7681.7
25°	7147.9
27.5°	6451.5
30°	5600.7
32.5°	4570.7
35°	3486.4
37.5°	2493.9
40°	1626.4
42.5°	971.7
45°	558.8
47.5°	312.8
50°	154.3
52.5°	70.9
55°	16.6
57.5°	4.2
60°	8.4
62.5°	12.5
65°	0.0
67.5°	8.4
70°	4.2
72.5°	4.2
75°	12.5
77.5°	0.0
80°	0.0
82.5°	0.0
85°	4.2
87.5°	0.0
90°	0.0

(END OF REPORT)