

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: P249877

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249877
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 EC8B100830 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10169.0 lumens
Efficiency: N/A
Efficacy: 95.7 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

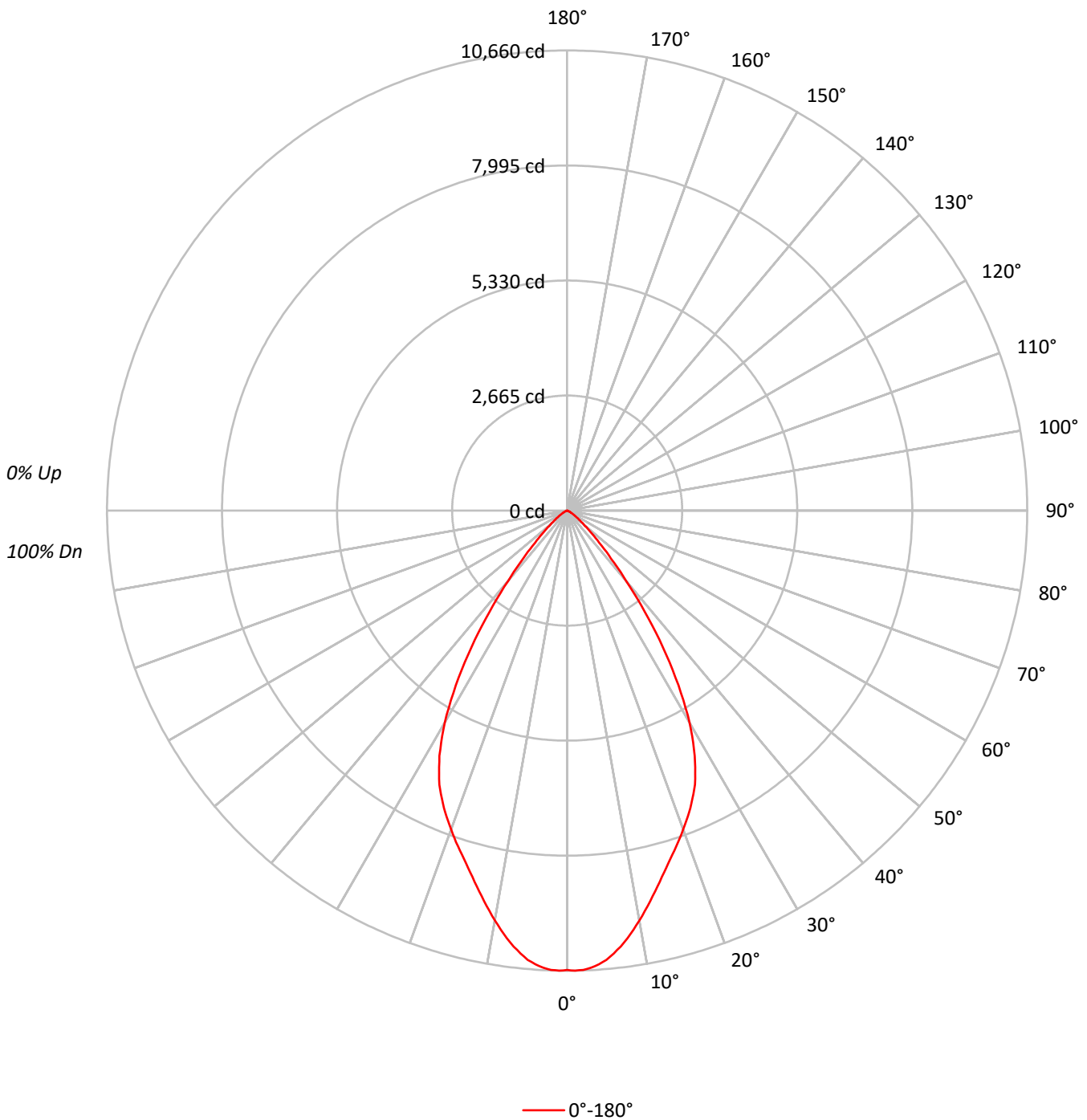
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	328212
5°	323378
10°	301795
15°	277015
20°	258001
25°	238370
30°	202143
35°	145416
40°	85664
45°	45781
50°	23886
55°	13473
60°	7432
65°	4400
70°	2002
75°	1132
80°	568
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	970.3	9.5
10°-20°	2441.4	24.0
20°-30°	3169.4	31.2
30°-40°	2392.2	23.5
40°-50°	875.3	8.6
50°-60°	244.7	2.4
60°-70°	64.3	0.6
70°-80°	10.8	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°	6581.2	64.7
0°-40°	8973.4	88.2
0°-60°	10093.4	99.3
0°-90°	10169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10169.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10644	
5°	10447	970
15°	8677	2441
25°	7006	3169
35°	3863	2392
45°	1050	875
55°	251	245
65°	60	64
75°	10	11
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10643.7
1°	10659.5
2°	10646.9
3°	10605.6
4°	10535.8
5°	10447.0
6°	10317.0
7°	10174.3
8°	10009.4
9°	9828.6
10°	9638.3
11°	9448.0
12°	9251.4
13°	9051.6
14°	8861.3
15°	8677.3
16°	8502.9
17°	8334.8
18°	8182.6
19°	8024.0
20°	7862.2
22.5°	7459.5
25°	7005.9
27.5°	6406.5
30°	5677.1
32.5°	4798.5
35°	3862.9
37.5°	2949.5
40°	2128.1
42.5°	1506.5
45°	1049.8
47.5°	739.0
50°	497.9
52.5°	364.7
55°	250.6
57.5°	180.8
60°	120.5
62.5°	88.8
65°	60.3
67.5°	41.2
70°	22.2
72.5°	15.9
75°	9.5
77.5°	3.2
80°	3.2



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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)