

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: P250961

Luminaire Tested: **LSR8B70D010 EC8B70827 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70827 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6961.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

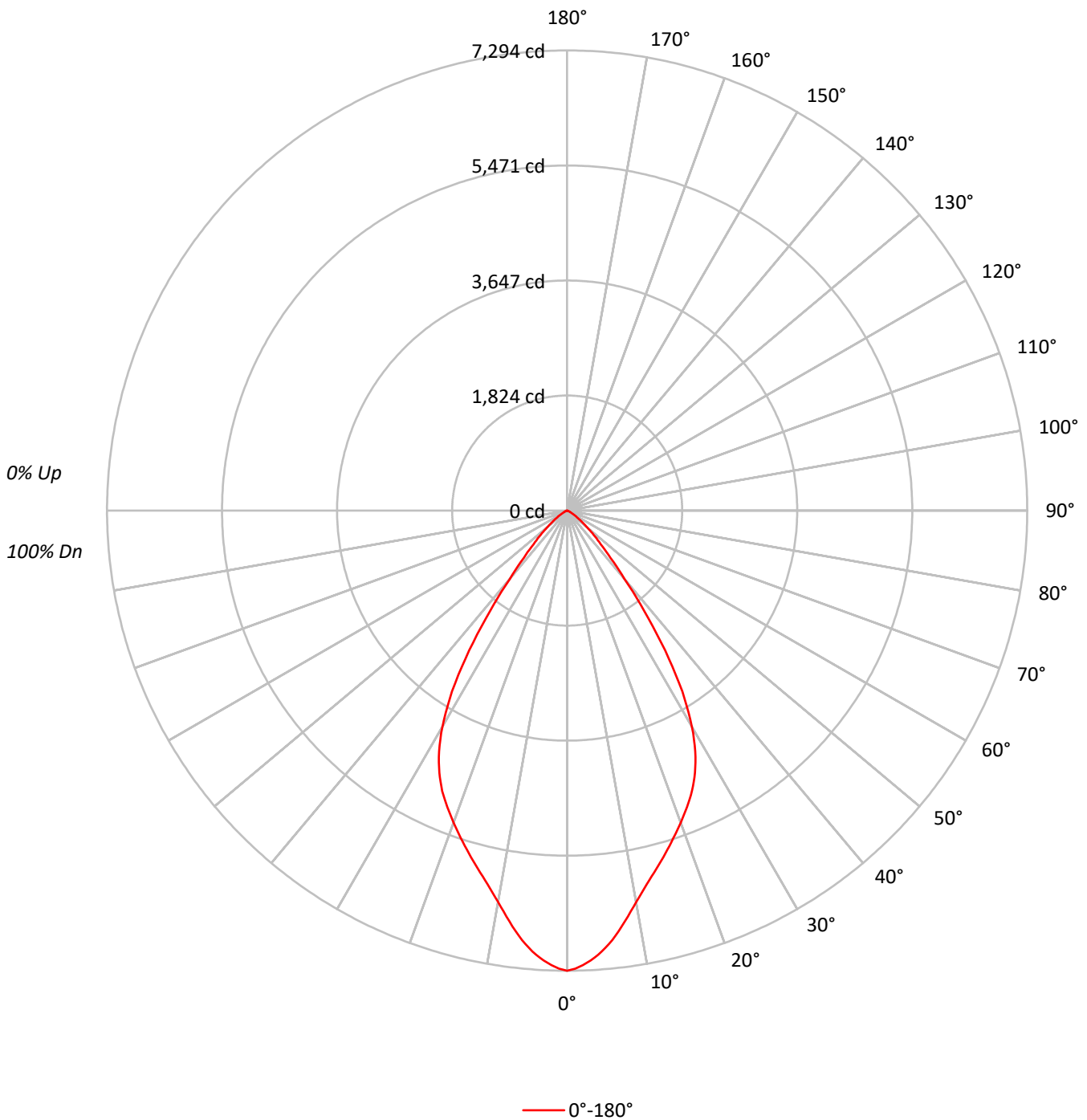
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56	51	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	224926
5°	215388
10°	197360
15°	183643
20°	172727
25°	161604
30°	140935
35°	101858
40°	57104
45°	32855
50°	20105
55°	11446
60°	5951
65°	3035
70°	1650
75°	989
80°	586
85°	601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.5	9.2
10°-20°	1617.1	23.2
20°-30°	2157.8	31.0
30°-40°	1663.2	23.9
40°-50°	620.1	8.9
50°-60°	202.8	2.9
60°-70°	46.8	0.7
70°-80°	9.4	0.1
80°-90°	1.4	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°	4417.3	63.5
0°-40°	6080.5	87.4
0°-60°	6903.5	99.2
0°-90°	6961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6961.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7294	
5°	6958	642
15°	5752	1617
25°	4750	2158
35°	2706	1663
45°	753	620
55°	213	203
65°	42	47
75°	8	9
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7294.2
1°	7262.6
2°	7209.4
3°	7141.2
4°	7058.0
5°	6958.3
6°	6845.2
7°	6715.5
8°	6577.4
9°	6434.4
10°	6303.0
11°	6176.6
12°	6058.5
13°	5950.4
14°	5850.7
15°	5752.5
16°	5652.8
17°	5556.3
18°	5456.5
19°	5358.4
20°	5263.6
21°	5165.5
22°	5070.7
23°	4970.9
24°	4866.1
25°	4749.7
26°	4621.7
27°	4480.3
28°	4324.0
29°	4149.3
30°	3958.1
32.5°	3397.6
35°	2705.8
37.5°	2004.0
40°	1418.6
42.5°	1016.1
45°	753.4
47.5°	567.1
50°	419.1
52.5°	299.4
55°	212.9
57.5°	146.3
60°	96.5
62.5°	63.2
65°	41.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	28.3
70°	18.3
72.5°	11.6
75°	8.3
77.5°	5.0
80°	3.3
82.5°	1.7
85°	1.7
87.5°	0.0
90°	0.0

(END OF REPORT)