

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: P251463

Luminaire Tested: **LSR8B70D010 EC8B70830 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70830 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7255.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

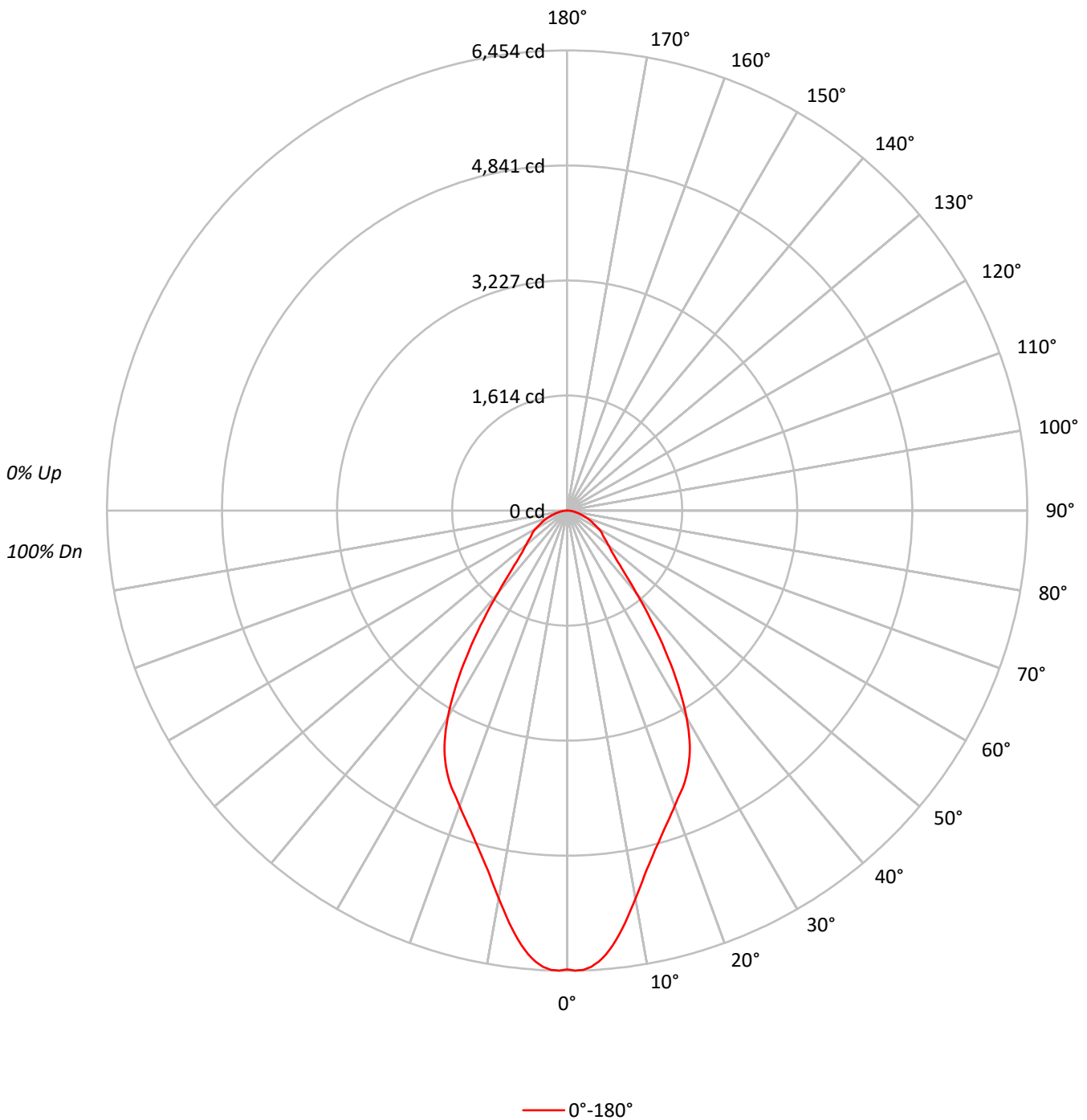
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85		90	86	83		87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68		76	71	67		74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62		70	65	61		69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56		65	60	56		64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52		61	55	51		60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44		54	48	44		53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41		50	45	41		50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	198456
5°	193426
10°	172917
15°	155391
20°	144709
25°	136331
30°	119197
35°	90316
40°	60659
45°	42754
50°	36258
55°	33063
60°	31330
65°	28186
70°	25353
75°	22804
80°	20084
85°	19353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.9	7.9
10°-20°	1372.7	18.9
20°-30°	1819.0	25.1
30°-40°	1491.6	20.6
40°-50°	794.6	11.0
50°-60°	559.2	7.7
60°-70°	385.6	5.3
70°-80°	200.8	2.8
80°-90°	59.4	0.8
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°	3763.7	51.9
0°-40°	5255.3	72.4
0°-60°	6609.1	91.1
0°-90°	7255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7255.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6436	
5°	6249	572
15°	4868	1373
25°	4007	1819
35°	2399	1492
45°	980	795
55°	615	559
65°	386	386
75°	191	201
85°	55	59
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6435.8
1°	6454.1
2°	6446.2
3°	6408.1
4°	6342.7
5°	6248.8
6°	6131.4
7°	5990.3
8°	5839.1
9°	5678.0
10°	5522.4
11°	5373.6
12°	5222.3
13°	5096.2
14°	4976.7
15°	4867.5
16°	4764.6
17°	4669.8
18°	4581.9
19°	4494.0
20°	4409.8
21°	4327.8
22°	4256.4
23°	4183.3
24°	4097.3
25°	4006.9
26°	3904.2
27°	3788.5
28°	3658.1
29°	3513.6
30°	3347.6
31°	3173.5
32°	2990.8
33°	2795.9
34°	2600.2
35°	2399.2
37.5°	1922.5
40°	1506.9
42.5°	1190.1
45°	980.4
47.5°	842.0
50°	755.8
52.5°	680.3
55°	615.0
57.5°	575.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	508.0
62.5°	442.9
65°	386.3
67.5°	335.9
70°	281.2
72.5°	234.8
75°	191.4
77.5°	138.5
80°	113.1
82.5°	81.8
85°	54.7
87.5°	25.4
90°	0.0

(END OF REPORT)