

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: P250927

Luminaire Tested: **LSR8B70D010 EC8B70935 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70935 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6436.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

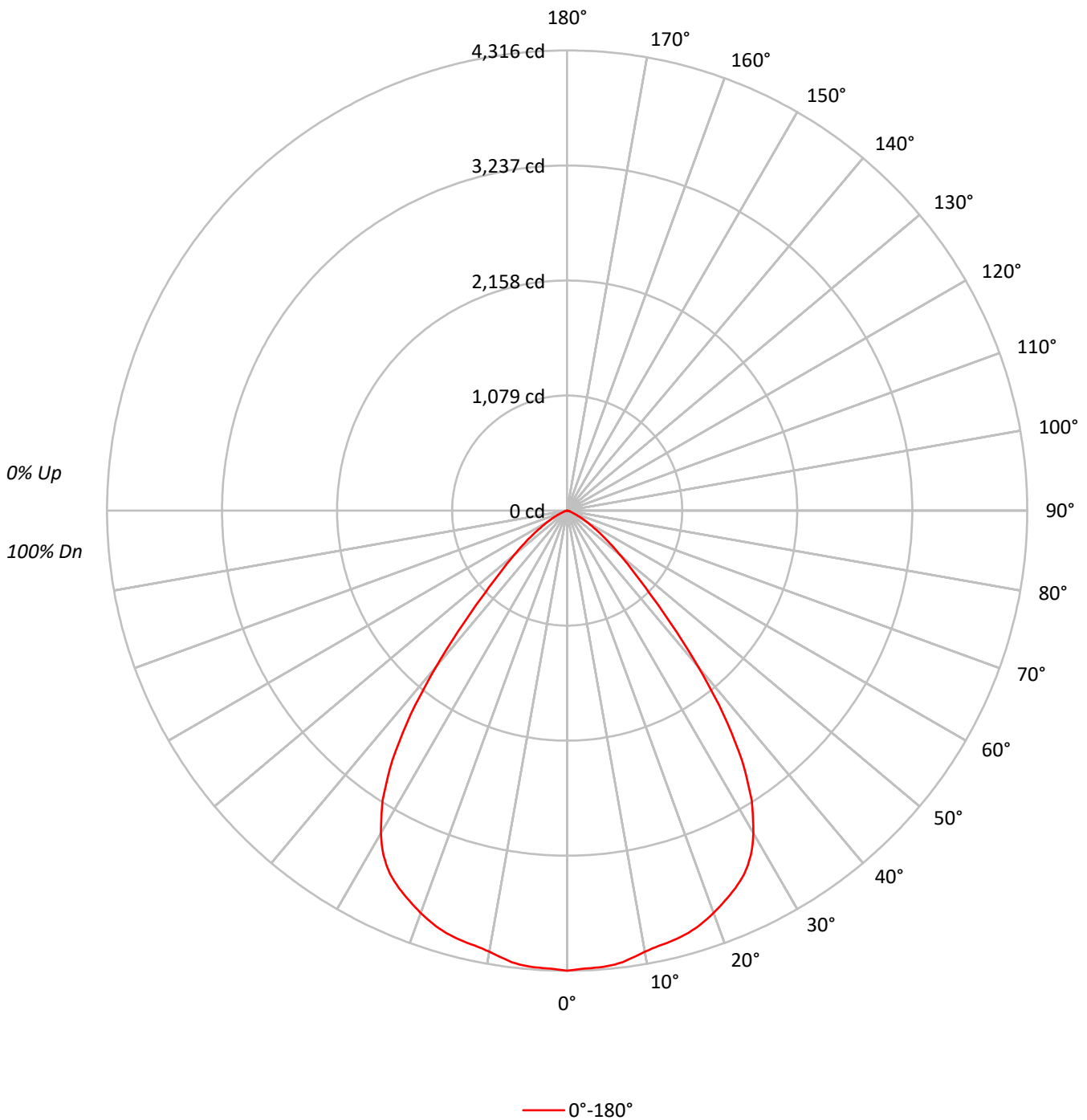
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	71	77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	63	62
6	82	71	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	133077
5°	132781
10°	131576
15°	132070
20°	131790
25°	130506
30°	124388
35°	107696
40°	76825
45°	47211
50°	31144
55°	20601
60°	13192
65°	7194
70°	3525
75°	1775
80°	994
85°	672



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.7	6.3
10°-20°	1166.9	18.1
20°-30°	1756.0	27.3
30°-40°	1738.5	27.0
40°-50°	883.4	13.7
50°-60°	355.9	5.5
60°-70°	107.8	1.7
70°-80°	18.6	0.3
80°-90°	2.3	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°	3329.5	51.7
0°-40°	5068.1	78.7
0°-60°	6307.3	98.0
0°-90°	6436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6436.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4316	
5°	4290	407
15°	4137	1167
25°	3836	1756
35°	2861	1739
45°	1083	883
55°	383	356
65°	99	108
75°	15	19
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4315.6
1°	4306.3
2°	4298.9
3°	4297.0
4°	4295.1
5°	4289.6
6°	4282.1
7°	4267.2
8°	4244.9
9°	4224.4
10°	4202.1
11°	4183.5
12°	4170.5
13°	4161.2
14°	4150.0
15°	4137.0
16°	4120.3
17°	4099.8
18°	4075.6
19°	4047.7
20°	4016.1
21°	3982.6
22°	3949.1
23°	3913.8
24°	3876.6
25°	3835.7
26°	3791.0
27°	3733.4
28°	3666.4
29°	3586.4
30°	3493.4
32.5°	3221.8
35°	2860.9
37.5°	2410.8
40°	1908.5
42.5°	1441.6
45°	1082.6
47.5°	827.8
50°	649.2
52.5°	504.1
55°	383.2
57.5°	284.6
60°	213.9
62.5°	152.5
65°	98.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	61.4
70°	39.1
72.5°	24.2
75°	14.9
77.5°	9.3
80°	5.6
82.5°	3.7
85°	1.9
87.5°	0.0
90°	0.0

(END OF REPORT)