

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: P251433

Luminaire Tested: **LSR8B70D010 EC8B70940 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-48)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B70940 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6835.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

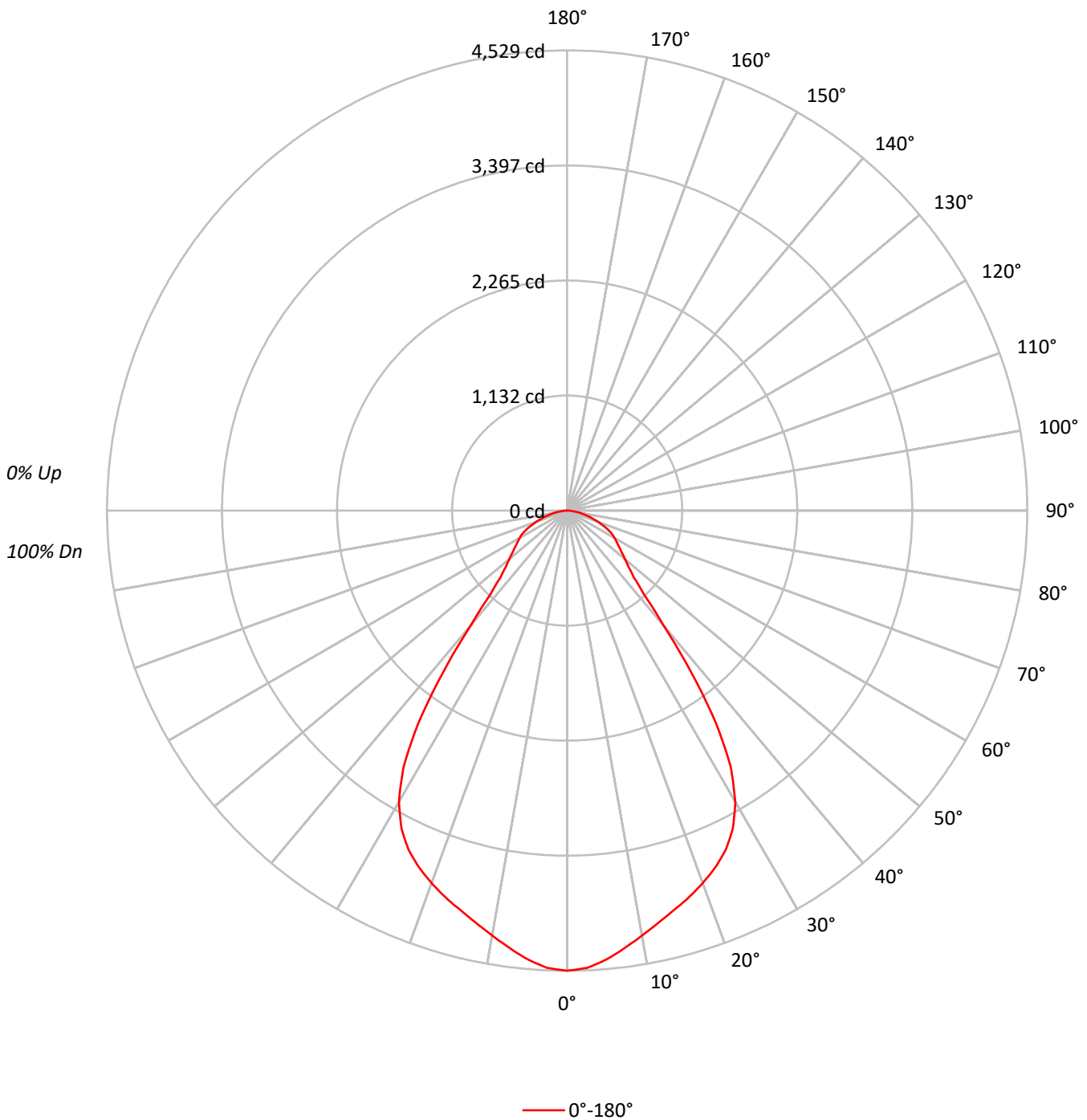
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49	59	53	49	57	52	48	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	139648
5°	137297
10°	132976
15°	129902
20°	128052
25°	125539
30°	117869
35°	96215
40°	59604
45°	40369
50°	35567
55°	33563
60°	33291
65°	32265
70°	28923
75°	25056
80°	21167
85°	16877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.2	6.1
10°-20°	1149.3	16.8
20°-30°	1685.4	24.7
30°-40°	1540.6	22.5
40°-50°	762.7	11.2
50°-60°	564.0	8.3
60°-70°	433.5	6.3
70°-80°	226.0	3.3
80°-90°	56.3	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°	3251.9	47.6
0°-40°	4792.5	70.1
0°-60°	6119.2	89.5
0°-90°	6835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6835.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4529	
5°	4436	417
15°	4069	1149
25°	3690	1685
35°	2556	1541
45°	926	763
55°	624	564
65°	442	433
75°	210	226
85°	48	56
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4528.7
2.5°	4504.8
5°	4435.5
7.5°	4342.2
10°	4246.8
12.5°	4153.6
15°	4069.1
17.5°	3988.9
20°	3902.2
22.5°	3804.6
25°	3689.7
27.5°	3531.5
30°	3310.3
32.5°	3000.3
35°	2555.9
37.5°	2005.3
40°	1480.7
42.5°	1120.8
45°	925.7
47.5°	819.5
50°	741.4
52.5°	678.5
55°	624.3
57.5°	578.8
60°	539.8
62.5°	498.6
65°	442.2
67.5°	381.5
70°	320.8
72.5°	264.5
75°	210.3
77.5°	162.6
80°	119.2
82.5°	82.4
85°	47.7
87.5°	17.3
90°	0.0

(END OF REPORT)