

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: P250764

Luminaire Tested: **LSR8B80D010 EC8B80940 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80940 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7438.9 lumens
Efficiency: N/A
Efficacy: 100.0 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

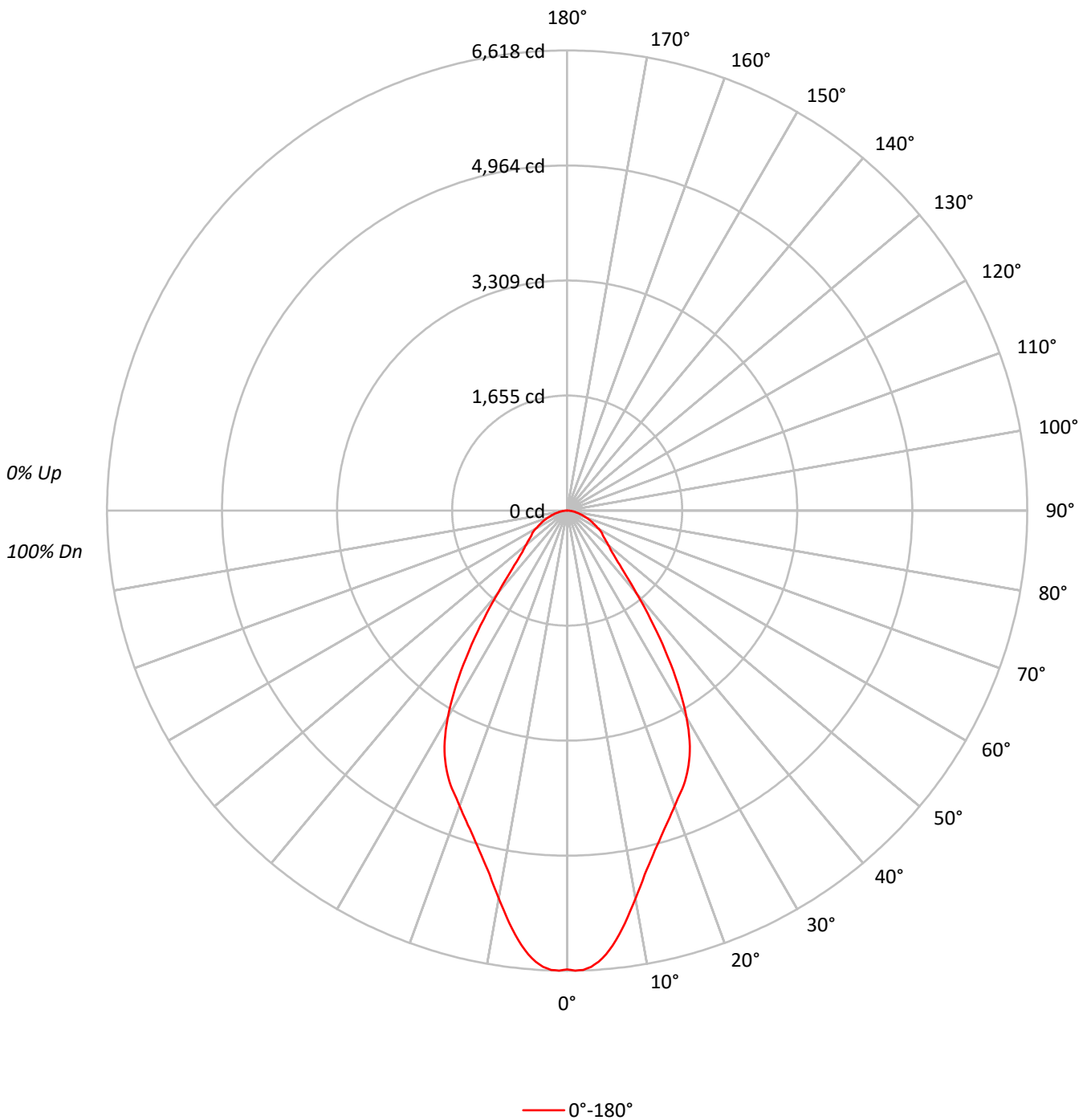
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	203483
5°	198329
10°	177307
15°	159336
20°	148384
25°	139791
30°	122231
35°	92605
40°	62204
45°	43832
50°	37169
55°	33902
60°	32119
65°	28894
70°	26002
75°	23328
80°	20635
85°	19813



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.4	7.9
10°-20°	1407.5	18.9
20°-30°	1865.3	25.1
30°-40°	1529.5	20.6
40°-50°	814.6	11.0
50°-60°	573.3	7.7
60°-70°	395.4	5.3
70°-80°	205.9	2.8
80°-90°	60.9	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°	3859.3	51.9
0°-40°	5388.8	72.4
0°-60°	6776.8	91.1
0°-90°	7438.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7438.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6599	
5°	6407	586
15°	4991	1408
25°	4109	1865
35°	2460	1530
45°	1005	815
55°	631	573
65°	396	395
75°	196	206
85°	56	61
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6598.8
1°	6618.2
2°	6609.5
3°	6570.8
4°	6504.1
5°	6407.2
6°	6286.7
7°	6142.5
8°	5987.5
9°	5821.8
10°	5662.6
11°	5509.7
12°	5354.7
13°	5225.6
14°	5103.0
15°	4991.1
16°	4885.6
17°	4788.7
18°	4698.3
19°	4607.9
20°	4521.8
21°	4437.9
22°	4364.8
23°	4289.4
24°	4201.2
25°	4108.6
26°	4003.2
27°	3884.8
28°	3751.4
29°	3602.8
30°	3432.8
31°	3254.2
32°	3067.0
33°	2866.8
34°	2666.6
35°	2460.0
37.5°	1971.4
40°	1545.3
42.5°	1220.3
45°	1005.1
47.5°	863.1
50°	774.8
52.5°	697.3
55°	630.6
57.5°	589.7



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CANDELA DISTRIBUTION (continued):

	0°
60°	520.8
62.5°	454.1
65°	396.0
67.5°	344.4
70°	288.4
72.5°	241.0
75°	195.8
77.5°	142.0
80°	116.2
82.5°	83.9
85°	56.0
87.5°	25.8
90°	0.0

(END OF REPORT)