

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: P249890

Luminaire Tested: **LD8B90D010 ER8B90840 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B90D010 ER8B90840 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9106.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

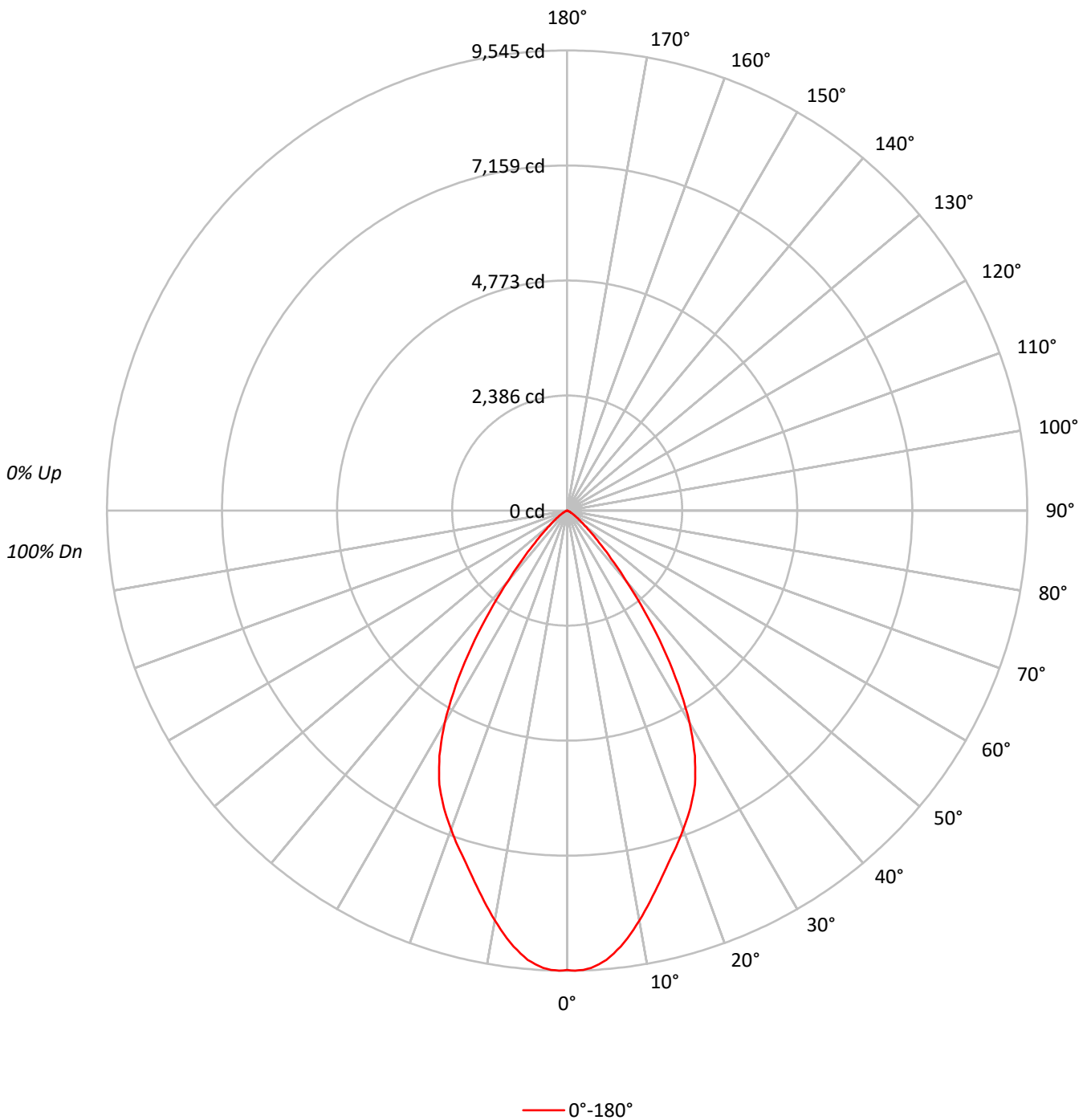
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	101		100	99	98		97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91		94	92	89		91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76		83	79	76		81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70		78	73	70		76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65		73	68	65		71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56		64	60	56		63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53		61	56	52		60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49		57	53	49		57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	293904
5°	289576
10°	270248
15°	248060
20°	231033
25°	213454
30°	181010
35°	130215
40°	76708
45°	40993
50°	21391
55°	12064
60°	6654
65°	3940
70°	1794
75°	1013
80°	497
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	868.9	9.5
10°-20°	2186.2	24.0
20°-30°	2838.1	31.2
30°-40°	2142.1	23.5
40°-50°	783.8	8.6
50°-60°	219.1	2.4
60°-70°	57.6	0.6
70°-80°	9.7	0.1
80°-90°	0.4	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°	5893.2	64.7
0°-40°	8035.4	88.2
0°-60°	9038.3	99.3
0°-90°	9106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9106.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9531	
5°	9355	869
15°	7770	2186
25°	6274	2838
35°	3459	2142
45°	940	784
55°	224	219
65°	54	58
75°	8	10
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9531.1
1°	9545.3
2°	9533.9
3°	9497.0
4°	9434.5
5°	9355.0
6°	9238.5
7°	9110.7
8°	8963.1
9°	8801.2
10°	8630.8
11°	8460.4
12°	8284.3
13°	8105.4
14°	7935.0
15°	7770.3
16°	7614.1
17°	7463.5
18°	7327.2
19°	7185.2
20°	7040.4
22.5°	6679.7
25°	6273.6
27.5°	5736.8
30°	5083.6
32.5°	4296.9
35°	3459.1
37.5°	2641.2
40°	1905.6
42.5°	1349.0
45°	940.0
47.5°	661.7
50°	445.9
52.5°	326.6
55°	224.4
57.5°	161.9
60°	107.9
62.5°	79.5
65°	54.0
67.5°	36.9
70°	19.9
72.5°	14.2
75°	8.5
77.5°	2.8
80°	2.8



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)