

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: P247179

Luminaire Tested: **LD8B90D010 ER8B90950 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B90D010 ER8B90950 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8760.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

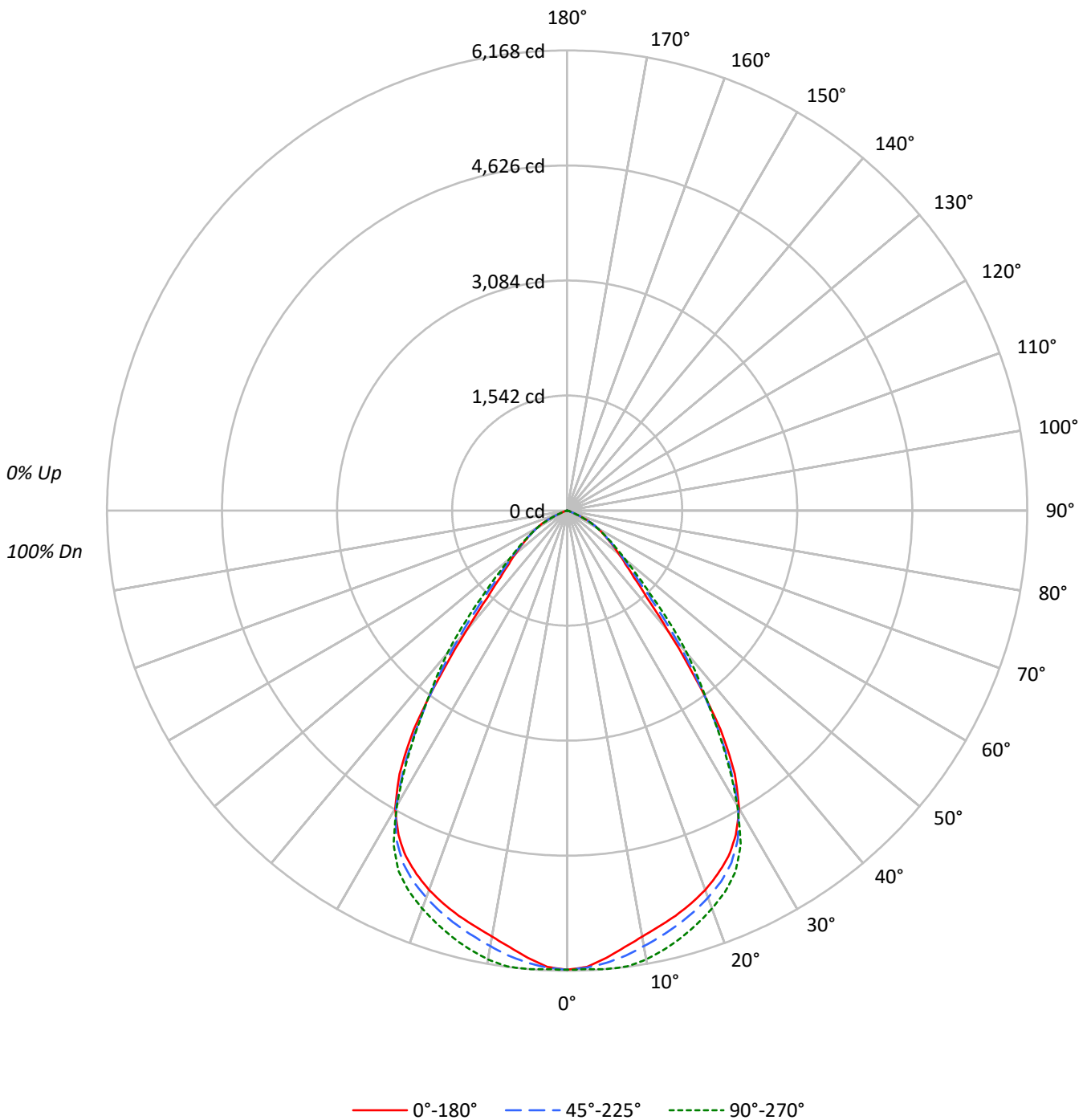
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	189776	189776	189776
5°	186288	188315	190919
10°	181516	185646	191273
15°	179458	183407	189109
20°	177583	181164	186345
25°	174088	177235	181689
30°	164140	163399	162399
35°	135015	130362	129620
40°	84545	93280	100848
45°	55170	61515	68170
50°	43502	45593	48582
55°	35461	36074	37192
60°	29017	28826	28696
65°	18796	18263	17278
70°	6464	5996	5527
75°	2228	2109	1978
80°	923	746	746
85°	354	354	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.5	6.6
10°-20°	1624.3	18.5
20°-30°	2375.6	27.1
30°-40°	2152.5	24.6
40°-50°	1144.5	13.1
50°-60°	610.8	7.0
60°-70°	249.2	2.8
70°-80°	25.1	0.3
80°-90°	1.5	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°	4576.3	52.2
0°-40°	6728.9	76.8
0°-60°	8484.2	96.9
0°-90°	8760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6154	6154	6154	6154	6154	
5°	6018	6034	6084	6139	6168	567
15°	5621	5654	5745	5864	5924	1586
25°	5117	5138	5209	5298	5340	2338
35°	3587	3537	3463	3437	3443	2155
45°	1265	1302	1411	1523	1563	1035
55°	660	658	671	680	692	598
65°	258	257	250	236	237	257
75°	19	19	18	17	17	27
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6154.3	6154.3	6154.3	6154.3	6154.3
2.5°	6121.1	6120.0	6131.4	6144.9	6152.2
5°	6018.2	6033.8	6083.7	6138.7	6167.8
7.5°	5901.9	5931.0	6017.2	6111.7	6162.6
10°	5797.0	5834.4	5928.9	6052.5	6108.6
12.5°	5706.6	5743.0	5838.5	5965.3	6026.5
15°	5621.4	5653.6	5745.1	5863.5	5923.7
17.5°	5522.8	5553.9	5642.2	5754.4	5806.3
20°	5411.6	5437.6	5520.7	5625.6	5678.6
22.5°	5273.5	5301.5	5385.7	5482.3	5532.1
25°	5116.6	5138.4	5209.1	5298.4	5340.0
27.5°	4898.5	4918.2	4959.8	5007.6	5038.7
30°	4609.8	4604.6	4589.0	4574.4	4560.9
32.5°	4183.9	4134.0	4058.2	4010.4	4012.5
35°	3586.6	3536.8	3463.0	3437.1	3443.3
37.5°	2802.4	2839.8	2869.9	2919.8	2943.7
40°	2100.3	2164.7	2317.3	2450.3	2505.3
42.5°	1578.8	1642.2	1802.1	1942.4	2018.2
45°	1265.1	1302.5	1410.6	1522.7	1563.2
47.5°	1059.5	1076.1	1138.4	1210.1	1245.4
50°	906.8	917.2	950.4	989.9	1012.7
52.5°	776.9	781.1	797.7	820.6	835.1
55°	659.6	658.5	671.0	680.3	691.8
57.5°	557.8	556.7	556.7	559.9	567.1
60°	470.5	467.4	467.4	463.3	465.3
62.5°	383.3	380.2	372.9	367.7	365.6
65°	257.6	256.6	250.3	235.8	236.8
67.5°	134.0	133.0	126.7	122.6	120.5
70°	71.7	69.6	66.5	63.4	61.3
72.5°	36.4	35.3	34.3	32.2	32.2
75°	18.7	18.7	17.7	16.6	16.6
77.5°	9.3	9.3	8.3	8.3	8.3
80°	5.2	5.2	4.2	4.2	4.2
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)