

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: P247625

Luminaire Tested: **LD8B120D010 ER8B120827 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B120D010 ER8B120827 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10746.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

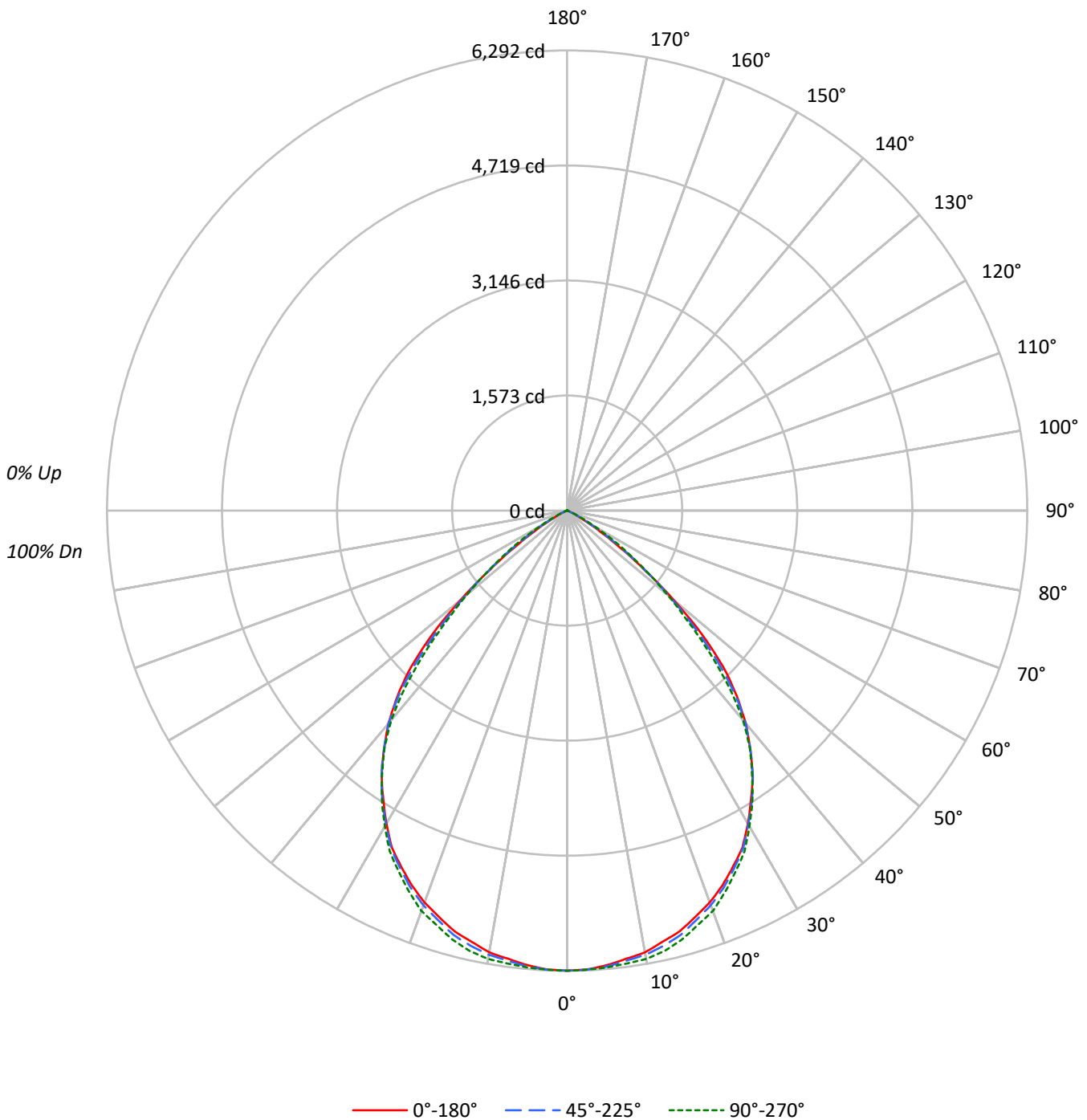
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44					44			
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	194022	194022	194022
5°	193138	193649	194119
10°	192040	193076	194895
15°	190102	191733	193808
20°	187064	188426	191192
25°	182716	183703	185350
30°	175961	176406	177535
35°	166417	166677	166003
40°	152925	152756	150642
45°	131499	126135	120348
50°	91422	88174	85718
55°	47697	51858	54907
60°	19347	22844	26507
65°	6151	7559	8070
70°	875	496	252
75°	0	0	0
80°	2202	497	728
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.2	5.5
10°-20°	1690.9	15.7
20°-30°	2484.1	23.1
30°-40°	2750.2	25.6
40°-50°	2191.7	20.4
50°-60°	898.1	8.4
60°-70°	132.2	1.2
70°-80°	1.9	0.0
80°-90°	2.7	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°	4769.2	44.4
0°-40°	7519.4	70.0
0°-60°	10609.2	98.7
0°-90°	10746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6292	6292	6292	6292	6292	
5°	6240	6250	6256	6266	6271	592
15°	5955	5959	6006	6063	6071	1676
25°	5370	5365	5399	5431	5448	2470
35°	4421	4415	4428	4422	4410	2748
45°	3015	2988	2892	2785	2760	2263
55°	887	918	965	1020	1021	854
65°	84	88	104	113	111	112
75°	0	0	0	0	0	4
85°	0	0	0	6	0	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6292.0	6292.0	6292.0	6292.0	6292.0
2.5°	6280.9	6282.3	6282.3	6275.4	6283.7
5°	6239.5	6250.5	6256.0	6265.7	6271.2
7.5°	6181.4	6178.7	6207.7	6242.2	6246.4
10°	6133.1	6127.5	6166.2	6211.8	6224.3
12.5°	6037.7	6044.6	6094.4	6141.3	6166.2
15°	5954.8	5958.9	6005.9	6062.6	6070.9
17.5°	5826.3	5838.7	5870.5	5929.9	5941.0
20°	5700.5	5706.0	5742.0	5790.3	5826.3
22.5°	5547.1	5556.8	5584.4	5627.3	5645.2
25°	5370.2	5364.7	5399.2	5431.0	5447.6
27.5°	5190.6	5180.9	5207.2	5237.6	5252.8
30°	4941.8	4939.1	4954.3	4973.6	4986.0
32.5°	4680.6	4687.5	4702.7	4708.3	4712.4
35°	4420.8	4415.3	4427.7	4422.2	4409.8
37.5°	4112.7	4116.8	4116.8	4111.3	4105.7
40°	3799.0	3803.1	3794.8	3764.4	3742.3
42.5°	3431.4	3434.1	3391.3	3323.6	3278.0
45°	3015.4	2987.8	2892.4	2784.6	2759.7
47.5°	2491.6	2444.7	2345.2	2263.6	2234.6
50°	1905.7	1871.1	1838.0	1795.1	1786.8
52.5°	1336.3	1354.3	1366.7	1380.6	1376.4
55°	887.2	917.6	964.6	1019.9	1021.3
57.5°	533.4	568.0	627.4	688.2	717.2
60°	313.7	327.5	370.4	416.0	429.8
62.5°	170.0	174.1	193.5	239.1	232.2
65°	84.3	88.4	103.6	113.3	110.6
67.5°	41.5	45.6	48.4	62.2	51.1
70°	9.7	2.8	5.5	6.9	2.8
72.5°	0.0	0.0	2.8	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.8	0.0	0.0	0.0	5.5
80°	12.4	8.3	2.8	2.8	4.1
82.5°	4.1	1.4	4.1	1.4	0.0
85°	0.0	0.0	0.0	5.5	0.0
87.5°	6.9	1.4	1.4	4.1	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)