

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: P247545

Luminaire Tested: **LD8B120D010 ER8B120850 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B120D010 ER8B120850 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12471.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

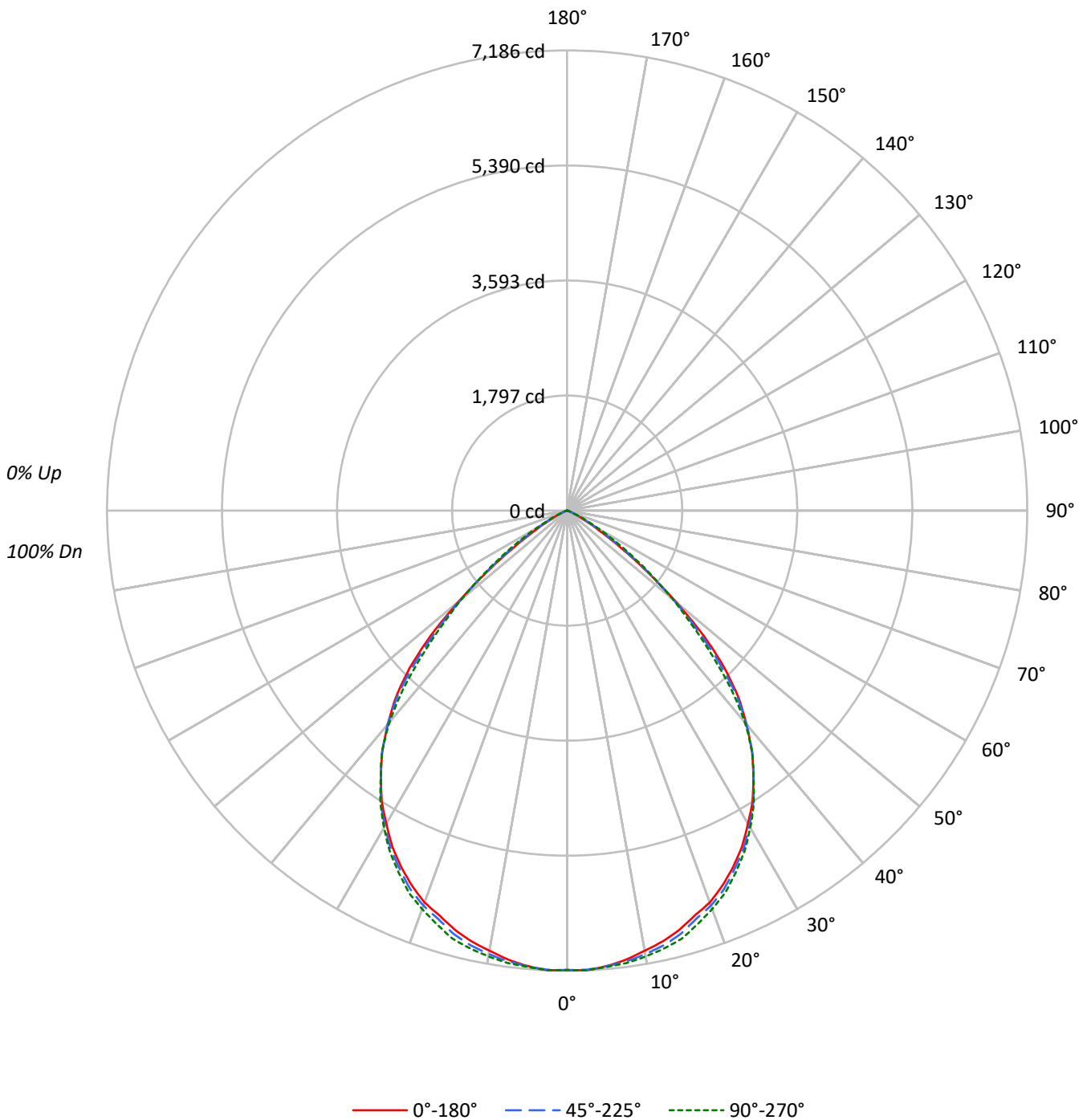
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247545

CATALOG NUMBER: LD8B120D010 ER8B120850 8LBS0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P247545

CATALOG NUMBER: LD8B120D010 ER8B120850 8LBS0GPH

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	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	221229	221229	221229
5°	220966	221059	221381
10°	218567	220249	221370
15°	216315	218552	220934
20°	213687	215400	217260
25°	208765	210286	212014
30°	201100	202641	203702
35°	190815	190980	191037
40°	175330	175632	173829
45°	151681	146348	139837
50°	106370	104226	102863
55°	57761	62573	66664
60°	25489	31102	35246
65°	9799	12302	14695
70°	4977	4436	5788
75°	1597	3026	2669
80°	1332	266	1598
85°	0	0	0



TEST NUMBER: P247545

CATALOG NUMBER: LD8B120D010 ER8B120850 8LBS0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.6	5.4
10°-20°	1927.3	15.5
20°-30°	2842.2	22.8
30°-40°	3163.5	25.4
40°-50°	2546.0	20.4
50°-60°	1082.6	8.7
60°-70°	203.0	1.6
70°-80°	24.6	0.2
80°-90°	3.1	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°	5448.2	43.7
0°-40°	8611.7	69.1
0°-60°	12240.3	98.2
0°-90°	12471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7174	7174	7174	7174	7174	
5°	7138	7140	7142	7153	7152	676
15°	6776	6813	6846	6898	6921	1909
25°	6136	6158	6180	6216	6231	2820
35°	5069	5070	5073	5075	5075	3157
45°	3478	3450	3356	3254	3207	2615
55°	1074	1098	1164	1210	1240	1023
65°	134	149	169	181	201	174
75°	13	16	25	24	22	22
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



TEST NUMBER: P247545

CATALOG NUMBER: LD8B120D010 ER8B120850 8LBS0GPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7174.3	7174.3	7174.3	7174.3	7174.3
2.5°	7186.2	7190.7	7175.8	7178.8	7183.3
5°	7138.5	7140.0	7141.5	7153.4	7151.9
7.5°	7071.3	7081.8	7099.7	7122.1	7128.0
10°	6980.3	7007.2	7034.0	7060.9	7069.8
12.5°	6890.8	6907.2	6955.0	6981.8	7004.2
15°	6775.9	6813.2	6846.0	6898.3	6920.6
17.5°	6629.7	6656.5	6687.9	6740.1	6771.4
20°	6511.8	6519.2	6564.0	6610.3	6620.7
22.5°	6337.2	6353.6	6399.9	6431.2	6458.1
25°	6135.8	6158.1	6180.5	6216.3	6231.3
27.5°	5914.9	5928.3	5959.7	5985.0	5998.5
30°	5647.8	5677.7	5691.1	5703.0	5720.9
32.5°	5388.2	5397.1	5409.1	5416.5	5425.5
35°	5068.9	5070.4	5073.3	5074.8	5074.8
37.5°	4742.1	4752.5	4749.5	4740.6	4745.1
40°	4355.6	4373.5	4363.1	4336.2	4318.3
42.5°	3966.2	3957.2	3921.4	3840.8	3803.5
45°	3478.2	3449.9	3355.9	3254.4	3206.6
47.5°	2893.3	2830.6	2751.5	2672.5	2641.1
50°	2217.3	2208.4	2172.6	2141.2	2144.2
52.5°	1589.1	1611.5	1619.0	1648.8	1663.8
55°	1074.4	1098.2	1163.9	1210.1	1240.0
57.5°	653.6	699.8	770.0	846.1	884.9
60°	413.3	440.2	504.3	553.6	571.5
62.5°	258.1	259.6	291.0	329.8	346.2
65°	134.3	149.2	168.6	180.6	201.4
67.5°	83.6	83.6	82.1	100.0	111.9
70°	55.2	47.7	49.2	59.7	64.2
72.5°	19.4	32.8	29.8	29.8	20.9
75°	13.4	16.4	25.4	23.9	22.4
77.5°	17.9	16.4	11.9	10.4	20.9
80°	7.5	6.0	1.5	9.0	9.0
82.5°	7.5	3.0	9.0	11.9	7.5
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.5	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)