

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: P247533

Luminaire Tested: **LD8B120D010 ER8B120830 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247533
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 ER8B120830 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11840.0 lumens
Efficiency: N/A
Efficacy: 100.1 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

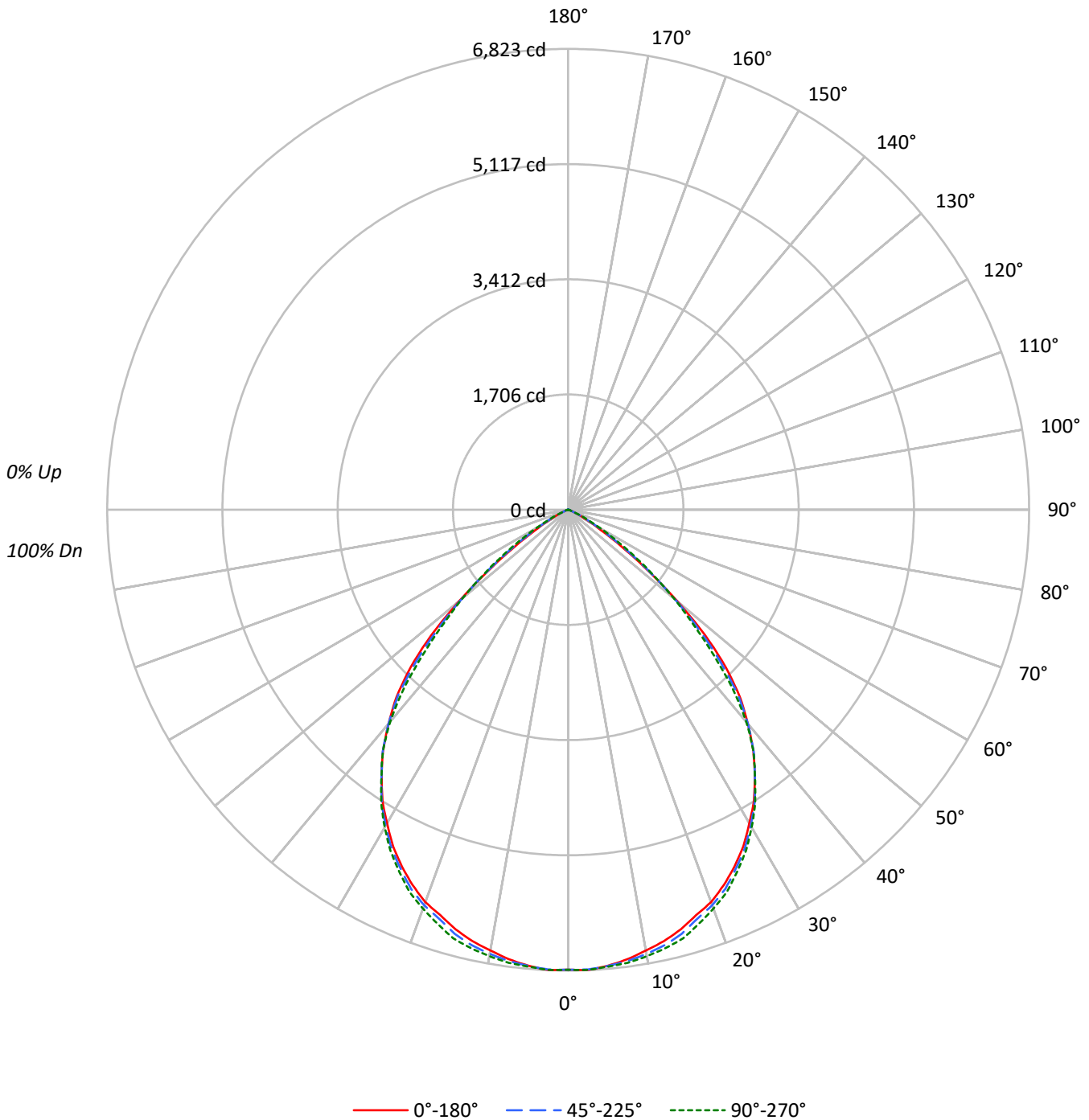
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	210035	210035	210035
5°	209785	209872	210178
10°	207508	209105	210169
15°	205371	207494	209757
20°	202874	204502	206267
25°	198201	199647	201287
30°	190927	192387	193398
35°	181159	181317	181373
40°	166458	166744	165033
45°	144006	138943	132764
50°	100992	98953	97658
55°	54837	59406	63288
60°	24200	29529	33464
65°	9303	11682	13951
70°	4724	4210	5491
75°	1513	2871	2526
80°	1261	249	1509
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.3	5.4
10°-20°	1829.8	15.5
20°-30°	2698.4	22.8
30°-40°	3003.5	25.4
40°-50°	2417.2	20.4
50°-60°	1027.9	8.7
60°-70°	192.7	1.6
70°-80°	23.4	0.2
80°-90°	2.9	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°	5172.5	43.7
0°-40°	8176.0	69.1
0°-60°	11621.0	98.2
0°-90°	11840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6811	6811	6811	6811	6811	
5°	6777	6779	6780	6792	6790	642
15°	6433	6468	6500	6549	6570	1813
25°	5825	5847	5868	5902	5916	2677
35°	4812	4814	4817	4818	4818	2997
45°	3302	3275	3186	3090	3044	2483
55°	1020	1043	1105	1149	1177	971
65°	128	142	160	171	191	165
75°	13	16	24	23	21	20
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6811.3	6811.3	6811.3	6811.3	6811.3
2.5°	6822.6	6826.9	6812.7	6815.5	6819.8
5°	6777.3	6778.7	6780.1	6791.5	6790.0
7.5°	6713.5	6723.5	6740.5	6761.7	6767.4
10°	6627.1	6652.6	6678.1	6703.6	6712.1
12.5°	6542.1	6557.7	6603.1	6628.6	6649.8
15°	6433.1	6468.5	6499.6	6549.2	6570.5
17.5°	6294.2	6319.7	6349.5	6399.1	6428.8
20°	6182.3	6189.4	6231.9	6275.8	6285.7
22.5°	6016.6	6032.1	6076.1	6105.8	6131.3
25°	5825.3	5846.6	5867.8	5901.8	5916.0
27.5°	5615.6	5628.4	5658.1	5682.2	5695.0
30°	5362.1	5390.4	5403.1	5414.5	5431.5
32.5°	5115.6	5124.1	5135.4	5142.5	5151.0
35°	4812.4	4813.8	4816.6	4818.1	4818.1
37.5°	4502.1	4512.1	4509.2	4500.7	4505.0
40°	4135.2	4152.2	4142.3	4116.8	4099.8
42.5°	3765.5	3757.0	3723.0	3646.5	3611.1
45°	3302.2	3275.3	3186.1	3089.7	3044.4
47.5°	2746.9	2687.4	2612.3	2537.2	2507.5
50°	2105.2	2096.7	2062.7	2032.9	2035.7
52.5°	1508.7	1530.0	1537.1	1565.4	1579.6
55°	1020.0	1042.7	1105.0	1148.9	1177.2
57.5°	620.5	664.4	731.0	803.2	840.1
60°	392.4	417.9	478.8	525.6	542.6
62.5°	245.1	246.5	276.2	313.1	328.7
65°	127.5	141.7	160.1	171.4	191.2
67.5°	79.3	79.3	77.9	94.9	106.2
70°	52.4	45.3	46.7	56.7	60.9
72.5°	18.4	31.2	28.3	28.3	19.8
75°	12.7	15.6	24.1	22.7	21.2
77.5°	17.0	15.6	11.3	9.9	19.8
80°	7.1	5.7	1.4	8.5	8.5
82.5°	7.1	2.8	8.5	11.3	7.1
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.4	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)