

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: P247112

Luminaire Tested: **LD8B100D010 ER8B100850 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100850 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12376.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

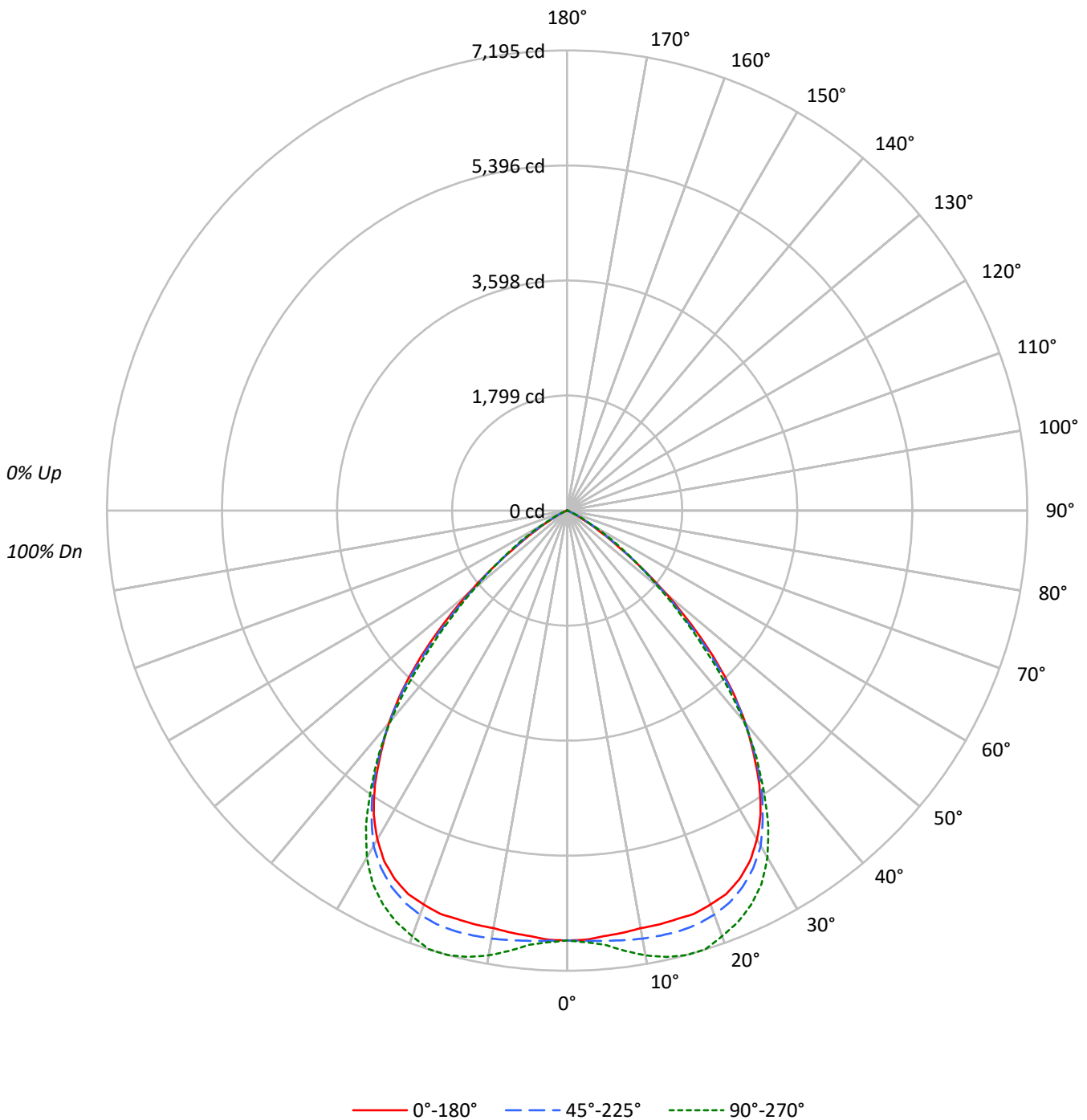
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	84	82				82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73				73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66				66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59				59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53				53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48				48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44				44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40				40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	207297	207297	207297
5°	206746	209027	210983
10°	207570	212803	221129
15°	211165	217256	229697
20°	215072	220644	232395
25°	216502	220891	231459
30°	211386	215602	222916
35°	197316	199349	201728
40°	174489	174328	173003
45°	141097	137081	131054
50°	96934	93206	90174
55°	49891	53073	56826
60°	20784	24595	27605
65°	8070	8551	10084
70°	2137	2020	2732
75°	941	1728	1573
80°	1403	1634	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.9	5.2
10°-20°	1936.7	15.6
20°-30°	2996.9	24.2
30°-40°	3282.5	26.5
40°-50°	2401.4	19.4
50°-60°	942.2	7.6
60°-70°	152.5	1.2
70°-80°	14.0	0.1
80°-90°	2.8	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°	5580.5	45.1
0°-40°	8862.9	71.6
0°-60°	12206.6	98.6
0°-90°	12376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6722	6722	6722	6722	6722	
5°	6679	6695	6753	6802	6816	636
15°	6615	6658	6805	7058	7195	1873
25°	6363	6383	6492	6688	6803	2918
35°	5242	5251	5296	5346	5359	3246
45°	3236	3230	3143	3047	3005	2464
55°	928	948	987	1023	1057	913
65°	111	108	117	129	138	134
75°	8	12	14	10	13	14
85°	0	0	0	0	0	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6722.5	6722.5	6722.5	6722.5	6722.5
2.5°	6715.9	6719.9	6733.0	6746.2	6754.1
5°	6679.1	6694.9	6752.8	6801.5	6816.0
7.5°	6656.7	6683.0	6773.8	6896.3	6943.7
10°	6629.1	6667.2	6796.2	6970.0	7062.1
12.5°	6630.4	6667.2	6804.1	7030.5	7149.0
15°	6614.6	6658.0	6805.4	7058.2	7195.1
17.5°	6610.6	6631.7	6781.7	7038.4	7189.8
20°	6554.0	6583.0	6723.8	6951.6	7081.9
22.5°	6492.2	6505.3	6634.3	6858.1	6968.7
25°	6363.2	6382.9	6492.2	6688.3	6802.8
27.5°	6185.4	6189.4	6300.0	6481.6	6581.7
30°	5936.7	5956.4	6055.1	6189.4	6260.5
32.5°	5628.6	5626.0	5690.5	5807.7	5853.7
35°	5241.6	5250.9	5295.6	5345.6	5358.8
37.5°	4787.5	4799.3	4829.6	4846.7	4858.6
40°	4334.7	4334.7	4330.7	4312.3	4297.8
42.5°	3818.7	3801.6	3781.8	3700.2	3664.7
45°	3235.5	3230.3	3143.4	3047.3	3005.2
47.5°	2622.1	2593.2	2502.3	2424.7	2407.6
50°	2020.6	1990.3	1942.9	1904.7	1879.7
52.5°	1440.1	1417.7	1437.4	1437.4	1434.8
55°	928.0	947.8	987.2	1022.8	1057.0
57.5°	588.4	614.7	675.3	721.4	733.2
60°	337.0	356.7	398.8	439.7	447.6
62.5°	211.9	213.2	240.9	264.6	279.1
65°	110.6	107.9	117.2	129.0	138.2
67.5°	46.1	46.1	55.3	54.0	68.4
70°	23.7	19.7	22.4	26.3	30.3
72.5°	17.1	13.2	18.4	23.7	10.5
75°	7.9	11.8	14.5	10.5	13.2
77.5°	10.5	10.5	7.9	13.2	2.6
80°	7.9	5.3	9.2	3.9	0.0
82.5°	1.3	2.6	1.3	1.3	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	3.9	6.6	5.3	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)