

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: P127940

Luminaire Tested: **LSM45W8035D010TEP**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P127940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24508)
Test Lab: INNOVATION CENTER P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSM45W8035D010TEP
Description: PORTFOLIO SURFACE MOUNT LED LUMINAIRE
Light Source: 80 CRI, 3500K CCT LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4708.7 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 1.43 / 1.73
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

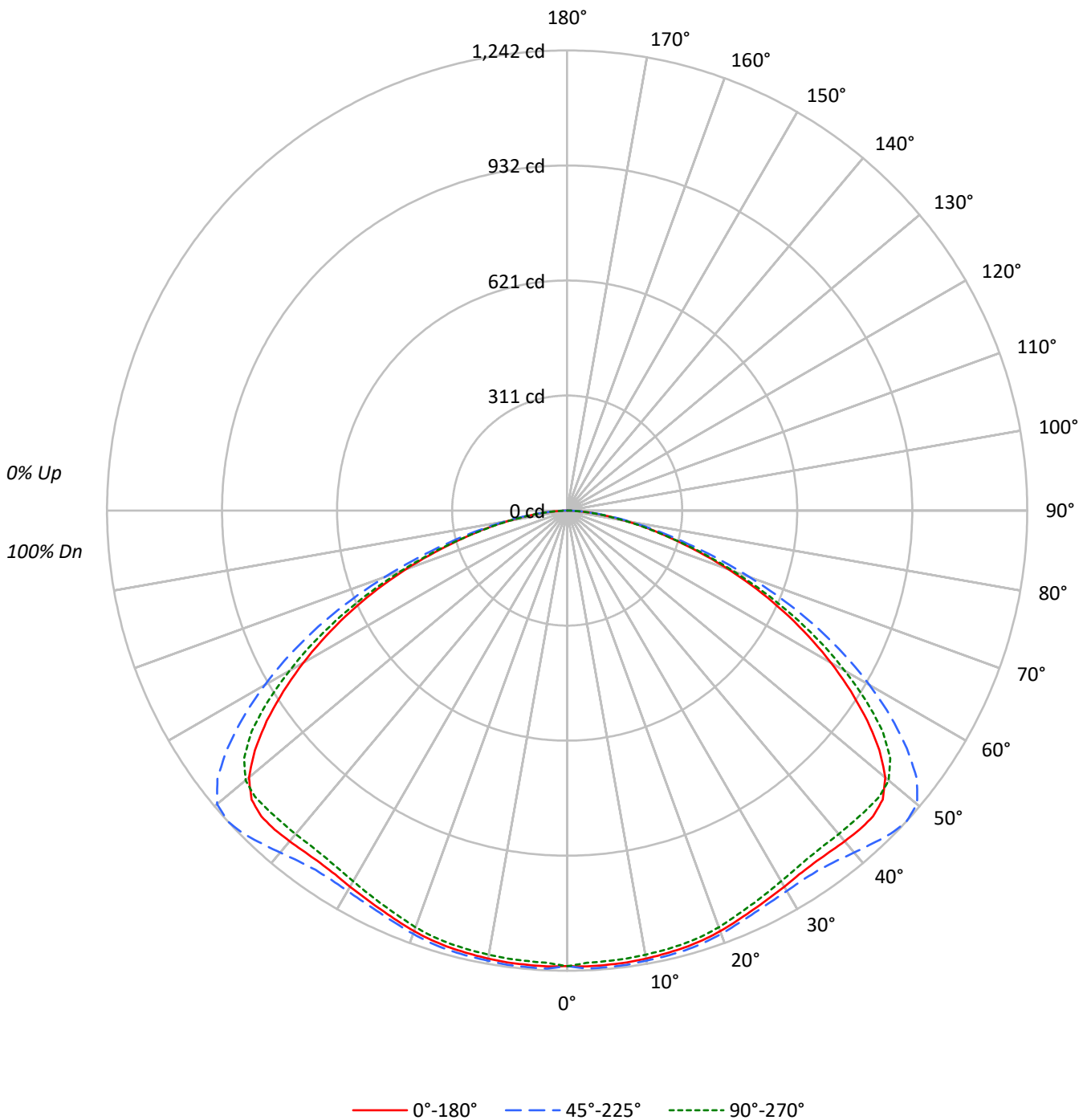
Input Watts (W): 44.68
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	47
5	73	60	50	43	71	59	50	43	57	49	43	54	48	42	53	47	42	39
6	67	53	44	37	65	52	43	37	51	43	37	49	42	36	47	41	36	34
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28	40	33	28	39	33	28	26
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	22	34	27	22	33	27	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13314	13314	13314
5°	13379	13446	13268
10°	13504	13563	13384
15°	13692	13776	13577
20°	13924	14010	13790
25°	14202	14307	14038
30°	14657	14827	14444
35°	15352	15649	15082
40°	16474	17032	16118
45°	17878	18901	17492
50°	18887	20770	19082
55°	18683	21139	19634
60°	17815	20427	18760
65°	16519	18981	17252
70°	14653	16527	15105
75°	12288	13489	12430
80°	10027	10707	9815
85°	7194	7616	7032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	2.5
10°-20°	345.0	7.3
20°-30°	549.4	11.7
30°-40°	734.4	15.6
40°-50°	919.9	19.5
50°-60°	944.4	20.1
60°-70°	690.2	14.7
70°-80°	335.0	7.1
80°-90°	73.3	1.6
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°	1011.5	21.5
0°-40°	1745.9	37.1
0°-60°	3610.2	76.7
0°-90°	4708.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4708.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1231	1227	1237	1222	1221	117
15°	1221	1219	1229	1214	1211	346
25°	1189	1187	1197	1182	1175	550
35°	1161	1167	1184	1159	1141	731
45°	1167	1198	1234	1185	1142	897
55°	990	1043	1120	1089	1040	879
65°	645	686	741	713	673	637
75°	294	309	322	309	297	317
85°	58	60	61	59	57	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.5	1229.5	1229.5	1229.5	1229.5
2.5°	1231.5	1227.4	1237.6	1222.6	1222.0
5°	1230.8	1226.7	1237.0	1222.0	1220.6
7.5°	1230.1	1226.7	1236.3	1221.3	1219.9
10°	1228.1	1224.0	1233.5	1219.2	1217.2
12.5°	1224.7	1221.3	1231.5	1216.5	1214.5
15°	1221.3	1218.6	1228.8	1214.5	1211.1
17.5°	1215.8	1213.1	1224.0	1209.0	1205.6
20°	1208.3	1205.6	1215.8	1201.5	1196.7
22.5°	1198.1	1195.4	1206.3	1191.3	1185.2
25°	1188.6	1187.2	1197.4	1181.8	1174.9
27.5°	1179.7	1179.7	1190.6	1173.6	1164.7
30°	1172.2	1173.6	1185.8	1166.8	1155.2
32.5°	1164.7	1168.8	1182.4	1160.6	1147.0
35°	1161.3	1167.4	1183.8	1158.6	1140.9
37.5°	1162.0	1172.9	1192.0	1161.3	1138.8
40°	1165.4	1181.8	1204.9	1168.1	1140.2
42.5°	1168.1	1190.6	1219.2	1176.3	1140.9
45°	1167.4	1198.1	1234.2	1185.2	1142.2
47.5°	1155.2	1194.7	1242.4	1192.0	1142.9
50°	1121.1	1168.8	1232.9	1186.5	1132.7
52.5°	1062.5	1115.6	1189.9	1152.4	1099.3
55°	989.6	1043.4	1119.7	1089.1	1040.0
57.5°	907.8	962.3	1035.9	1005.9	957.5
60°	822.6	873.7	943.2	913.2	866.2
62.5°	734.7	781.7	845.1	816.5	772.2
65°	644.7	686.3	740.8	712.9	673.3
67.5°	553.4	588.1	631.8	607.2	573.8
70°	462.8	490.0	522.0	502.3	477.1
72.5°	374.2	399.4	418.5	401.4	383.7
75°	293.7	309.4	322.4	309.4	297.1
77.5°	224.9	233.8	240.6	230.4	220.8
80°	160.8	169.0	171.7	164.2	157.4
82.5°	105.0	110.4	112.5	107.0	102.9
85°	57.9	60.0	61.3	58.6	56.6
87.5°	18.4	19.1	20.4	18.4	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)