

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: METALUX

Report Number: P#

Luminaire Tested: **24CZ-LD5-55SE-SQP-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55SE-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3904.4 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

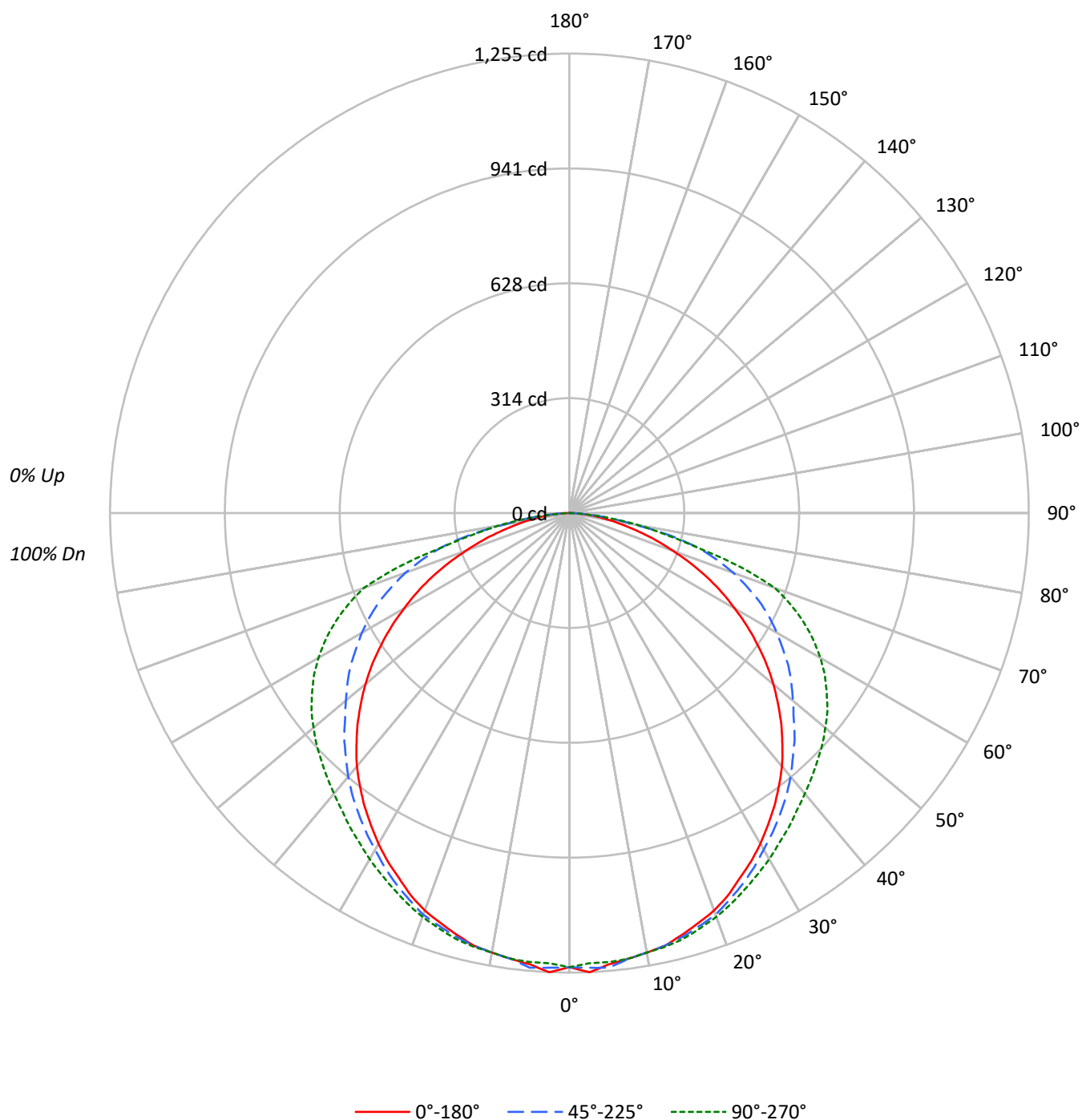
Input Watts (W): 54.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1669	1669	1669
5°	1667	1675	1655
10°	1658	1650	1651
15°	1649	1645	1655
20°	1639	1640	1650
25°	1615	1621	1645
30°	1597	1600	1648
35°	1576	1589	1660
40°	1554	1581	1687
45°	1520	1572	1736
50°	1479	1570	1803
55°	1421	1593	1879
60°	1345	1614	1960
65°	1255	1638	2031
70°	1105	1634	2066
75°	937	1566	1568
80°	761	1066	1172
85°	582	582	536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	3.0
10°-20°	338.1	8.7
20°-30°	515.3	13.2
30°-40°	630.5	16.1
40°-50°	678.4	17.4
50°-60°	657.1	16.8
60°-70°	556.7	14.3
70°-80°	336.5	8.6
80°-90°	73.9	1.9
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°	971.2	24.9
0°-40°	1601.7	41.0
0°-60°	2937.3	75.2
0°-90°	3904.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3904.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1237	1237	1246	1240	1231	118
15°	1192	1195	1198	1201	1204	336
25°	1101	1107	1119	1128	1134	508
35°	976	982	1004	1031	1046	611
45°	819	834	870	925	958	631
55°	628	655	731	816	858	561
65°	415	461	573	664	706	409
75°	197	267	361	367	358	212
85°	48	58	61	58	55	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1240.1	1240.1	1240.1	1240.1	1240.1
2.5°	1255.3	1252.3	1243.2	1237.1	1231.0
5°	1237.1	1237.1	1246.2	1240.1	1231.0
7.5°	1228.0	1228.0	1228.0	1243.2	1228.0
10°	1218.9	1221.9	1218.9	1231.0	1218.9
12.5°	1209.8	1209.8	1209.8	1212.8	1212.8
15°	1191.6	1194.7	1197.7	1200.7	1203.7
17.5°	1173.4	1176.5	1182.5	1185.6	1188.6
20°	1155.2	1158.3	1167.4	1167.4	1173.4
22.5°	1131.0	1131.0	1143.1	1146.1	1155.2
25°	1100.7	1106.7	1118.8	1127.9	1134.0
27.5°	1073.4	1079.4	1091.6	1103.7	1112.8
30°	1043.0	1049.1	1061.2	1079.4	1091.6
32.5°	1009.7	1015.8	1033.9	1055.2	1067.3
35°	976.3	982.4	1003.6	1030.9	1046.1
37.5°	940.0	949.1	973.3	1003.6	1021.8
40°	903.6	912.7	940.0	973.3	1000.6
42.5°	861.1	873.2	903.6	949.1	979.4
45°	818.7	833.8	870.2	924.8	958.1
47.5°	773.2	788.3	830.8	900.5	936.9
50°	727.7	745.9	797.4	873.2	912.7
52.5°	679.2	697.4	764.1	846.0	888.4
55°	627.6	654.9	730.7	815.6	858.1
57.5°	576.1	606.4	691.3	782.3	827.8
60°	521.5	557.9	654.9	745.9	791.4
62.5°	470.0	509.4	615.5	706.5	752.0
65°	415.4	460.9	573.1	664.0	706.5
67.5°	357.8	415.4	524.6	612.5	654.9
70°	300.2	366.9	476.0	557.9	597.3
72.5°	248.6	318.4	421.5	491.2	491.2
75°	197.1	266.8	360.8	366.9	357.8
77.5°	151.6	218.3	282.0	257.7	263.8
80°	112.2	166.8	178.9	188.0	194.1
82.5°	75.8	112.2	115.2	121.3	121.3
85°	48.5	57.6	60.6	57.6	54.6
87.5°	21.2	24.3	18.2	12.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)