

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-L830-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-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3423.1 lumens
Efficiency: N/A
Efficacy: 62.6 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

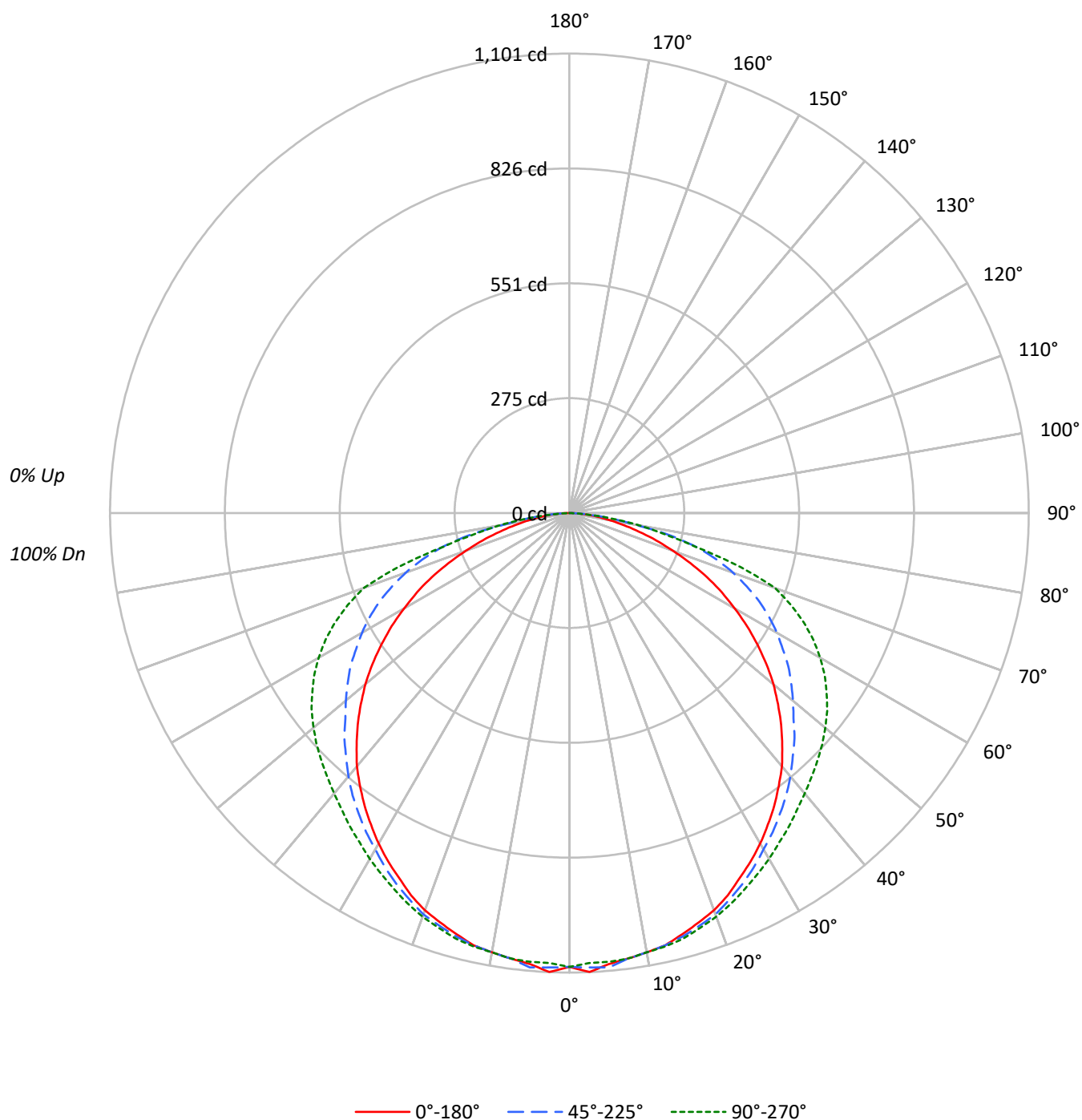
Input Watts (W): 54.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
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°	1463	1463	1463
5°	1462	1469	1451
10°	1454	1447	1447
15°	1446	1442	1451
20°	1437	1438	1447
25°	1416	1421	1442
30°	1401	1403	1445
35°	1382	1394	1455
40°	1363	1386	1479
45°	1332	1379	1522
50°	1297	1376	1581
55°	1246	1397	1647
60°	1179	1415	1718
65°	1101	1436	1781
70°	969	1433	1811
75°	822	1373	1374
80°	667	934	1027
85°	511	511	471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	3.0
10°-20°	296.5	8.7
20°-30°	451.8	13.2
30°-40°	552.8	16.1
40°-50°	594.8	17.4
50°-60°	576.2	16.8
60°-70°	488.1	14.3
70°-80°	295.0	8.6
80°-90°	64.8	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°	851.5	24.9
0°-40°	1404.3	41.0
0°-60°	2575.2	75.2
0°-90°	3423.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3423.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1085	1085	1093	1087	1079	103
15°	1045	1047	1050	1053	1055	295
25°	965	970	981	989	994	445
35°	856	861	880	904	917	535
45°	718	731	763	811	840	553
55°	550	574	641	715	752	492
65°	364	404	502	582	619	359
75°	173	234	316	322	314	186
85°	43	50	53	50	48	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1087.3	1087.3	1087.3	1087.3	1087.3
2.5°	1100.6	1097.9	1089.9	1084.6	1079.3
5°	1084.6	1084.6	1092.6	1087.3	1079.3
7.5°	1076.6	1076.6	1076.6	1089.9	1076.6
10°	1068.7	1071.3	1068.7	1079.3	1068.7
12.5°	1060.7	1060.7	1060.7	1063.3	1063.3
15°	1044.7	1047.4	1050.0	1052.7	1055.4
17.5°	1028.8	1031.4	1036.7	1039.4	1042.1
20°	1012.8	1015.5	1023.4	1023.4	1028.8
22.5°	991.6	991.6	1002.2	1004.8	1012.8
25°	965.0	970.3	981.0	989.0	994.3
27.5°	941.1	946.4	957.0	967.7	975.6
30°	914.5	919.8	930.4	946.4	957.0
32.5°	885.2	890.5	906.5	925.1	935.8
35°	856.0	861.3	879.9	903.8	917.1
37.5°	824.1	832.1	853.3	879.9	895.8
40°	792.2	800.2	824.1	853.3	877.2
42.5°	755.0	765.6	792.2	832.1	858.6
45°	717.7	731.0	762.9	810.8	840.1
47.5°	677.9	691.2	728.4	789.5	821.5
50°	638.0	654.0	699.1	765.6	800.2
52.5°	595.5	611.4	669.9	741.7	778.9
55°	550.2	574.2	640.7	715.1	752.3
57.5°	505.1	531.7	606.1	685.9	725.7
60°	457.2	489.2	574.2	654.0	693.8
62.5°	412.0	446.6	539.6	619.4	659.3
65°	364.2	404.0	502.5	582.2	619.4
67.5°	313.7	364.2	459.9	537.0	574.2
70°	263.2	321.7	417.3	489.2	523.7
72.5°	218.0	279.1	369.5	430.6	430.6
75°	172.8	233.9	316.3	321.7	313.7
77.5°	132.9	191.4	247.2	226.0	231.2
80°	98.3	146.2	156.8	164.8	170.1
82.5°	66.5	98.3	101.0	106.3	106.3
85°	42.6	50.5	53.2	50.5	47.9
87.5°	18.6	21.3	16.0	10.6	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)