

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-LD5-45SE-RDP-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-LD5-45SE-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2692.4 lumens
Efficiency: N/A
Efficacy: 67.5 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

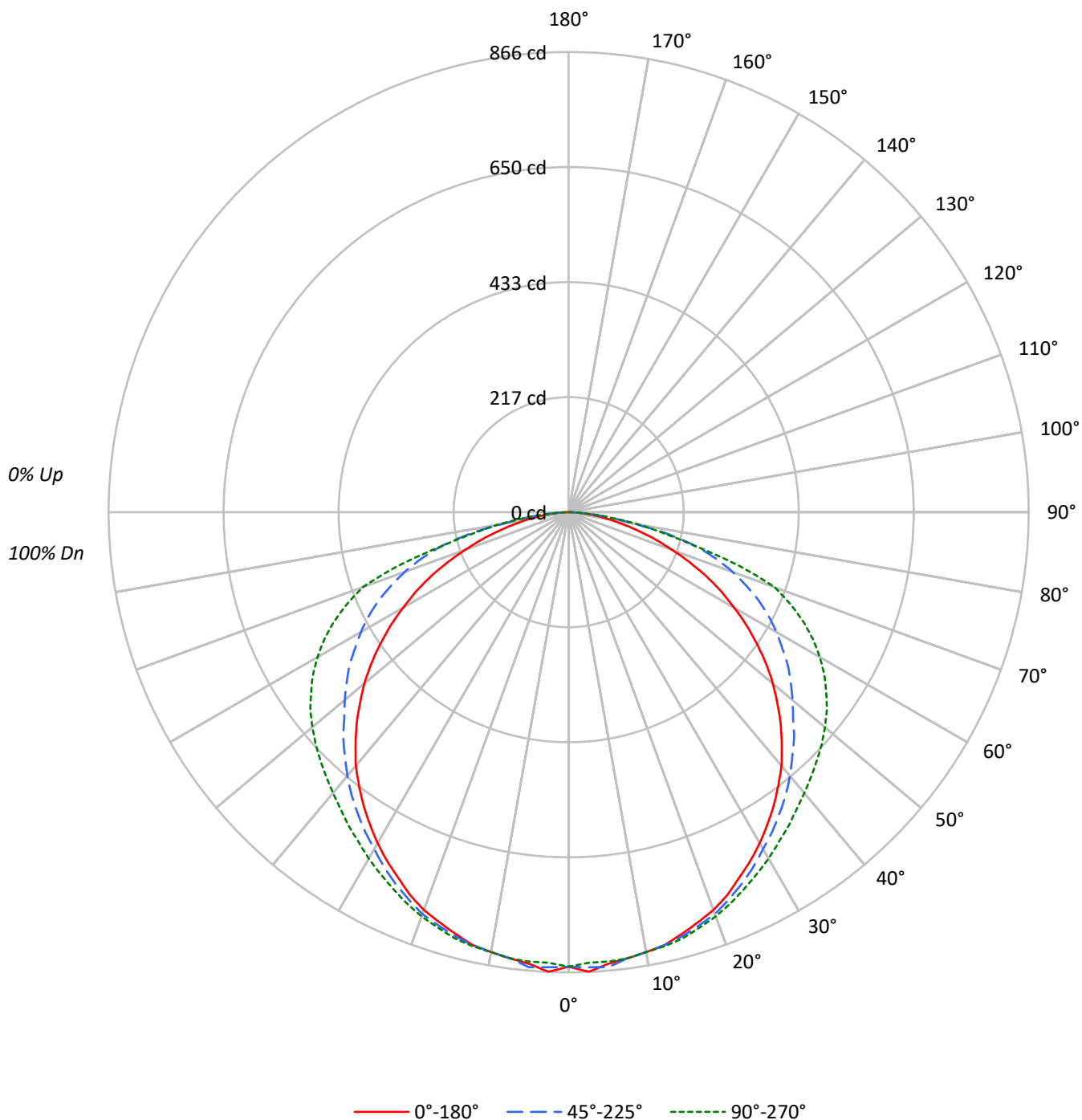
Input Watts (W): 39.91
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1151	1151	1151
5°	1150	1155	1142
10°	1143	1138	1138
15°	1137	1134	1141
20°	1130	1131	1138
25°	1114	1118	1134
30°	1101	1103	1137
35°	1087	1096	1145
40°	1072	1090	1163
45°	1048	1084	1197
50°	1020	1083	1243
55°	980	1099	1296
60°	928	1113	1351
65°	865	1130	1401
70°	762	1127	1425
75°	646	1080	1081
80°	525	735	808
85°	401	402	369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	3.0
10°-20°	233.2	8.7
20°-30°	355.3	13.2
30°-40°	434.8	16.1
40°-50°	467.8	17.4
50°-60°	453.2	16.8
60°-70°	383.9	14.3
70°-80°	232.0	8.6
80°-90°	51.0	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°	669.7	24.9
0°-40°	1104.5	41.0
0°-60°	2025.5	75.2
0°-90°	2692.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2692.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	853	853	859	855	849	81
15°	822	824	826	828	830	232
25°	759	763	772	778	782	350
35°	673	677	692	711	721	421
45°	564	575	600	638	661	435
55°	433	452	504	562	592	387
65°	286	318	395	458	487	282
75°	136	184	249	253	247	146
85°	33	40	42	40	38	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.2	855.2	855.2	855.2	855.2
2.5°	865.6	863.6	857.3	853.1	848.9
5°	853.1	853.1	859.4	855.2	848.9
7.5°	846.8	846.8	846.8	857.3	846.8
10°	840.6	842.6	840.6	848.9	840.6
12.5°	834.3	834.3	834.3	836.4	836.4
15°	821.8	823.8	825.9	828.0	830.1
17.5°	809.2	811.3	815.5	817.6	819.7
20°	796.6	798.7	805.0	805.0	809.2
22.5°	779.9	779.9	788.2	790.3	796.6
25°	759.0	763.1	771.5	777.8	781.9
27.5°	740.1	744.3	752.7	761.0	767.3
30°	719.2	723.4	731.8	744.3	752.7
32.5°	696.3	700.4	713.0	727.6	736.0
35°	673.3	677.4	692.1	710.9	721.3
37.5°	648.2	654.5	671.2	692.1	704.6
40°	623.1	629.4	648.2	671.2	690.0
42.5°	593.8	602.2	623.1	654.5	675.4
45°	564.5	575.0	600.1	637.7	660.7
47.5°	533.1	543.6	572.9	621.0	646.1
50°	501.8	514.3	549.9	602.2	629.4
52.5°	468.4	480.9	526.9	583.4	612.7
55°	432.8	451.6	503.9	562.4	591.8
57.5°	397.3	418.2	476.7	539.4	570.9
60°	359.7	384.8	451.6	514.3	545.7
62.5°	324.0	351.3	424.5	487.2	518.5
65°	286.4	317.8	395.2	457.9	487.2
67.5°	246.7	286.4	361.8	422.4	451.6
70°	207.0	253.0	328.2	384.8	411.9
72.5°	171.5	219.5	290.6	338.7	338.7
75°	135.9	184.0	248.8	253.0	246.7
77.5°	104.5	150.6	194.5	177.7	181.9
80°	77.3	115.0	123.4	129.7	133.9
82.5°	52.2	77.3	79.4	83.6	83.6
85°	33.4	39.7	41.8	39.7	37.6
87.5°	14.6	16.7	12.5	8.4	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)