

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-LD5-45-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-LD5-45-SQP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2760.8 lumens
Efficiency: N/A
Efficacy: 77.4 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

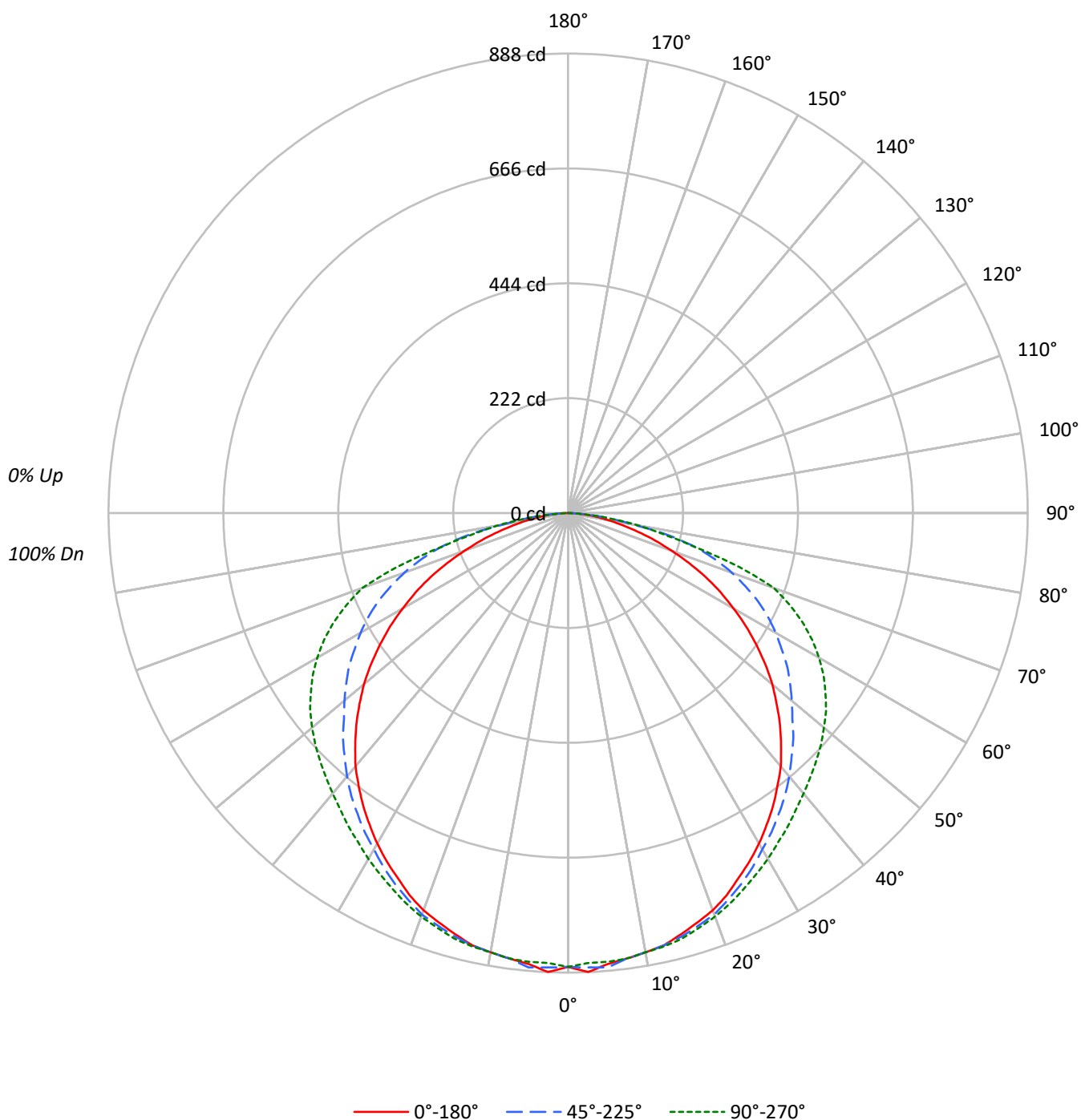
Input Watts (W): 35.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1180	1180	1180
5°	1179	1185	1171
10°	1172	1167	1167
15°	1166	1163	1170
20°	1159	1160	1167
25°	1142	1146	1163
30°	1130	1131	1166
35°	1114	1124	1174
40°	1099	1118	1193
45°	1075	1112	1228
50°	1046	1110	1275
55°	1005	1127	1329
60°	951	1141	1386
65°	887	1159	1437
70°	781	1156	1461
75°	663	1107	1108
80°	538	754	828
85°	412	411	379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	3.0
10°-20°	239.1	8.7
20°-30°	364.4	13.2
30°-40°	445.8	16.1
40°-50°	479.7	17.4
50°-60°	464.7	16.8
60°-70°	393.6	14.3
70°-80°	237.9	8.6
80°-90°	52.3	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°	686.8	24.9
0°-40°	1132.6	41.0
0°-60°	2077.0	75.2
0°-90°	2760.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2760.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	875	875	881	877	870	83
15°	843	845	847	849	851	238
25°	778	783	791	798	802	359
35°	690	695	710	729	740	432
45°	579	590	615	654	678	446
55°	444	463	517	577	607	396
65°	294	326	405	470	500	289
75°	139	189	255	259	253	150
85°	34	41	43	41	39	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.9	876.9	876.9	876.9	876.9
2.5°	887.7	885.5	879.0	874.8	870.5
5°	874.8	874.8	881.2	876.9	870.5
7.5°	868.3	868.3	868.3	879.0	868.3
10°	861.9	864.0	861.9	870.5	861.9
12.5°	855.5	855.5	855.5	857.7	857.7
15°	842.6	844.7	846.9	849.0	851.2
17.5°	829.7	831.9	836.2	838.3	840.5
20°	816.9	819.0	825.5	825.5	829.7
22.5°	799.7	799.7	808.4	810.4	816.9
25°	778.3	782.6	791.2	797.6	801.9
27.5°	759.0	763.3	771.9	780.4	786.9
30°	737.6	741.9	750.4	763.3	771.9
32.5°	713.9	718.3	731.1	746.1	754.7
35°	690.4	694.6	709.6	728.9	739.7
37.5°	664.6	671.1	688.3	709.6	722.6
40°	639.0	645.3	664.6	688.3	707.6
42.5°	608.9	617.5	639.0	671.1	692.6
45°	578.9	589.6	615.3	654.0	677.5
47.5°	546.7	557.5	587.5	636.8	662.5
50°	514.6	527.4	563.9	617.5	645.3
52.5°	480.2	493.1	540.3	598.2	628.2
55°	443.8	463.1	516.7	576.7	606.8
57.5°	407.4	428.8	488.9	553.2	585.3
60°	368.8	394.5	463.1	527.4	559.6
62.5°	332.3	360.2	435.3	499.6	531.7
65°	293.7	325.8	405.3	469.6	499.6
67.5°	253.0	293.7	370.9	433.1	463.1
70°	212.2	259.4	336.6	394.5	422.4
72.5°	175.8	225.2	298.0	347.3	347.3
75°	139.4	188.7	255.2	259.4	253.0
77.5°	107.2	154.4	199.4	182.2	186.6
80°	79.3	117.9	126.5	132.9	137.2
82.5°	53.6	79.3	81.5	85.8	85.8
85°	34.3	40.8	42.8	40.8	38.6
87.5°	15.0	17.2	12.8	8.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)