

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-RDP-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-LD5-45-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3001.7 lumens
Efficiency: N/A
Efficacy: 84.1 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

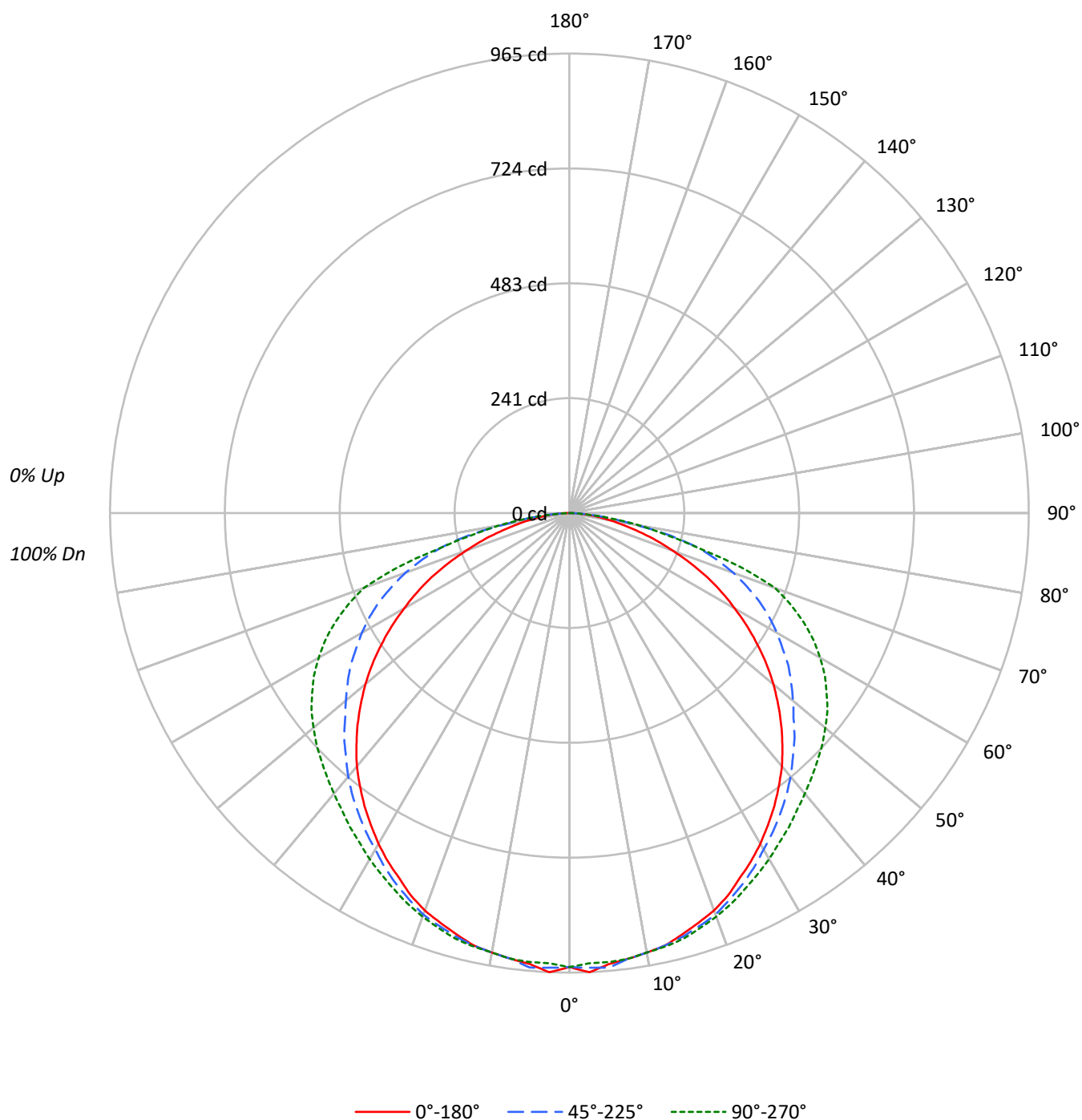
Input Watts (W): 35.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	1283	1283	1283
5°	1282	1288	1273
10°	1275	1268	1269
15°	1268	1265	1272
20°	1260	1261	1269
25°	1242	1246	1265
30°	1228	1230	1267
35°	1212	1222	1276
40°	1195	1215	1297
45°	1168	1209	1335
50°	1137	1207	1386
55°	1093	1225	1444
60°	1034	1241	1507
65°	965	1259	1562
70°	850	1257	1588
75°	720	1204	1205
80°	586	819	901
85°	448	448	413



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	3.0
10°-20°	260.0	8.7
20°-30°	396.2	13.2
30°-40°	484.7	16.1
40°-50°	521.6	17.4
50°-60°	505.2	16.8
60°-70°	428.0	14.3
70°-80°	258.7	8.6
80°-90°	56.8	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°	746.7	24.9
0°-40°	1231.4	41.0
0°-60°	2258.2	75.2
0°-90°	3001.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3001.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	951	951	958	953	946	90
15°	916	918	921	923	925	259
25°	846	851	860	867	872	391
35°	751	755	772	793	804	469
45°	629	641	669	711	737	485
55°	482	504	562	627	660	431
65°	319	354	441	510	543	314
75°	152	205	277	282	275	163
85°	37	44	47	44	42	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	953.4	953.4	953.4	953.4	953.4
2.5°	965.1	962.7	955.8	951.1	946.4
5°	951.1	951.1	958.1	953.4	946.4
7.5°	944.1	944.1	944.1	955.8	944.1
10°	937.1	939.4	937.1	946.4	937.1
12.5°	930.1	930.1	930.1	932.4	932.4
15°	916.1	918.5	920.8	923.1	925.4
17.5°	902.1	904.5	909.1	911.5	913.8
20°	888.2	890.5	897.5	897.5	902.1
22.5°	869.5	869.5	878.8	881.2	888.2
25°	846.2	850.9	860.2	867.2	871.8
27.5°	825.2	829.9	839.2	848.5	855.5
30°	801.9	806.6	815.9	829.9	839.2
32.5°	776.3	780.9	794.9	811.2	820.6
35°	750.6	755.3	771.6	792.6	804.2
37.5°	722.6	729.6	748.3	771.6	785.6
40°	694.7	701.7	722.6	748.3	769.3
42.5°	662.0	671.4	694.7	729.6	752.9
45°	629.4	641.1	669.0	711.0	736.6
47.5°	594.4	606.1	638.7	692.3	720.3
50°	559.5	573.5	613.1	671.4	701.7
52.5°	522.2	536.2	587.4	650.4	683.0
55°	482.5	503.5	561.8	627.1	659.7
57.5°	442.9	466.2	531.5	601.4	636.4
60°	401.0	428.9	503.5	573.5	608.4
62.5°	361.3	391.6	473.2	543.1	578.1
65°	319.4	354.3	440.6	510.5	543.1
67.5°	275.1	319.4	403.3	470.9	503.5
70°	230.8	282.1	366.0	428.9	459.2
72.5°	191.2	244.8	324.0	377.6	377.6
75°	151.5	205.1	277.4	282.1	275.1
77.5°	116.6	167.8	216.8	198.1	202.8
80°	86.3	128.2	137.5	144.5	149.2
82.5°	58.3	86.3	88.6	93.2	93.2
85°	37.3	44.3	46.6	44.3	42.0
87.5°	16.3	18.6	14.0	9.3	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)