

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-LD5-65-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-LD5-65-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4418.9 lumens
Efficiency: N/A
Efficacy: 76.7 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

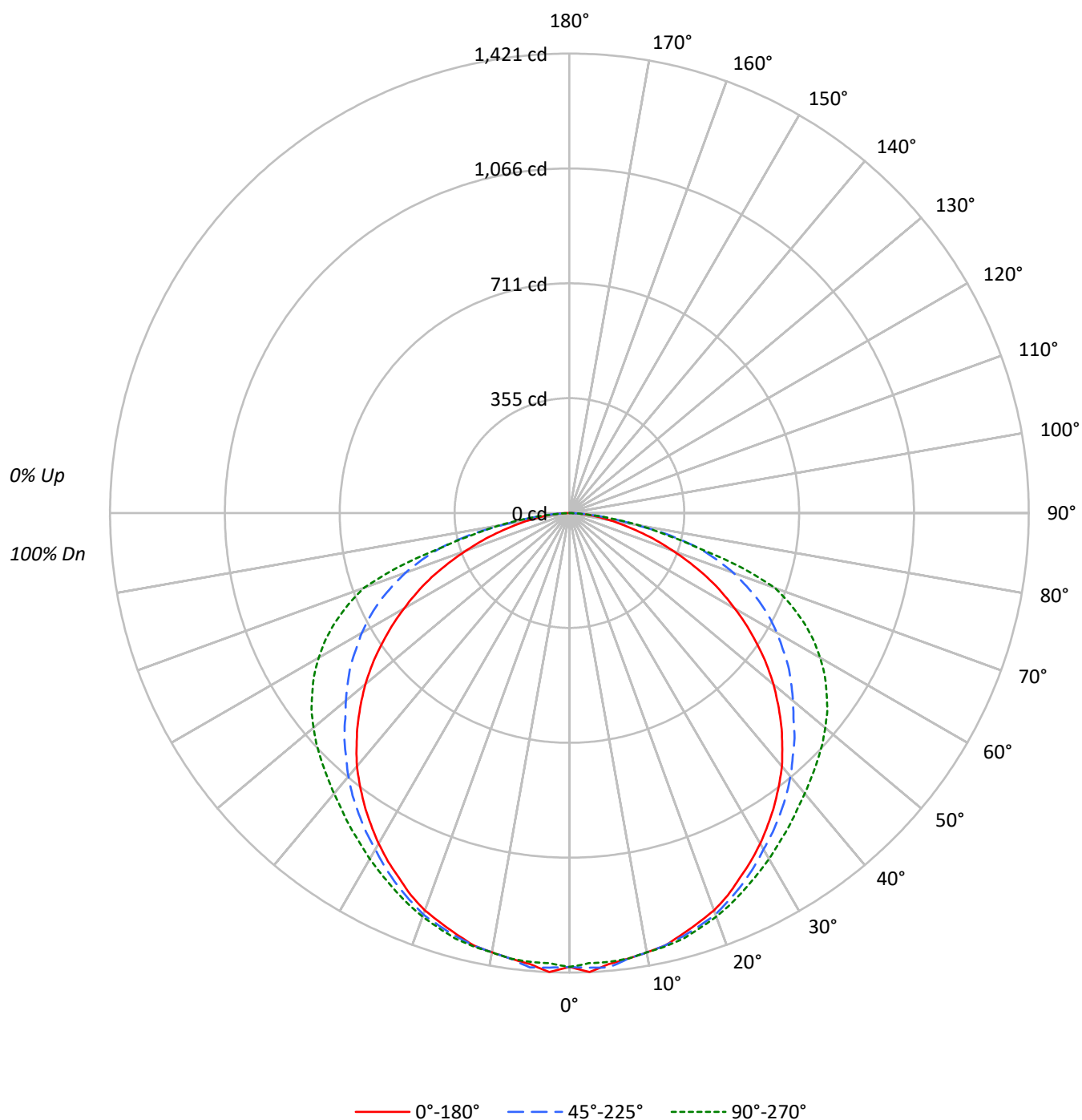
Input Watts (W): 57.64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1889	1889	1889
5°	1887	1896	1874
10°	1877	1867	1868
15°	1866	1862	1873
20°	1855	1856	1868
25°	1828	1835	1862
30°	1808	1811	1866
35°	1784	1799	1879
40°	1759	1789	1909
45°	1720	1780	1965
50°	1674	1777	2040
55°	1609	1803	2126
60°	1523	1827	2218
65°	1421	1854	2299
70°	1250	1850	2338
75°	1061	1772	1774
80°	862	1206	1326
85°	659	659	607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	3.0
10°-20°	382.7	8.7
20°-30°	583.2	13.2
30°-40°	713.6	16.1
40°-50°	767.8	17.4
50°-60°	743.8	16.8
60°-70°	630.0	14.3
70°-80°	380.8	8.6
80°-90°	83.7	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°	1099.2	24.9
0°-40°	1812.8	41.0
0°-60°	3324.4	75.2
0°-90°	4418.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4418.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1400	1400	1410	1404	1393	133
15°	1349	1352	1356	1359	1362	381
25°	1246	1253	1266	1277	1284	575
35°	1105	1112	1136	1167	1184	691
45°	927	944	985	1047	1084	714
55°	710	741	827	923	971	635
65°	470	522	649	752	800	463
75°	223	302	408	415	405	240
85°	55	65	69	65	62	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1403.6	1403.6	1403.6	1403.6	1403.6
2.5°	1420.7	1417.3	1407.0	1400.1	1393.3
5°	1400.1	1400.1	1410.4	1403.6	1393.3
7.5°	1389.8	1389.8	1389.8	1407.0	1389.8
10°	1379.6	1383.0	1379.6	1393.3	1379.6
12.5°	1369.3	1369.3	1369.3	1372.7	1372.7
15°	1348.7	1352.1	1355.5	1359.0	1362.4
17.5°	1328.1	1331.5	1338.4	1341.8	1345.2
20°	1307.5	1310.9	1321.2	1321.2	1328.1
22.5°	1280.0	1280.0	1293.8	1297.2	1307.5
25°	1245.7	1252.6	1266.3	1276.6	1283.5
27.5°	1214.8	1221.7	1235.4	1249.1	1259.4
30°	1180.5	1187.4	1201.1	1221.7	1235.4
32.5°	1142.8	1149.6	1170.2	1194.2	1208.0
35°	1105.0	1111.9	1135.9	1166.8	1183.9
37.5°	1063.8	1074.1	1101.6	1135.9	1156.5
40°	1022.7	1032.9	1063.8	1101.6	1132.5
42.5°	974.6	988.3	1022.7	1074.1	1108.4
45°	926.6	943.7	984.9	1046.7	1084.4
47.5°	875.1	892.2	940.3	1019.2	1060.4
50°	823.6	844.2	902.5	988.3	1032.9
52.5°	768.7	789.3	864.8	957.5	1005.5
55°	710.4	741.3	827.0	923.1	971.2
57.5°	652.0	686.3	782.4	885.4	936.9
60°	590.3	631.4	741.3	844.2	895.7
62.5°	531.9	576.5	696.6	799.6	851.1
65°	470.1	521.6	648.6	751.5	799.6
67.5°	404.9	470.1	593.7	693.2	741.3
70°	339.7	415.2	538.8	631.4	676.0
72.5°	281.4	360.3	477.0	555.9	555.9
75°	223.1	302.0	408.4	415.2	404.9
77.5°	171.6	247.1	319.2	291.7	298.6
80°	127.0	188.7	202.5	212.8	219.6
82.5°	85.8	127.0	130.4	137.3	137.3
85°	54.9	65.2	68.6	65.2	61.8
87.5°	24.0	27.5	20.6	13.7	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)