

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-SQP-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-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4635.6 lumens
Efficiency: N/A
Efficacy: 80.4 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

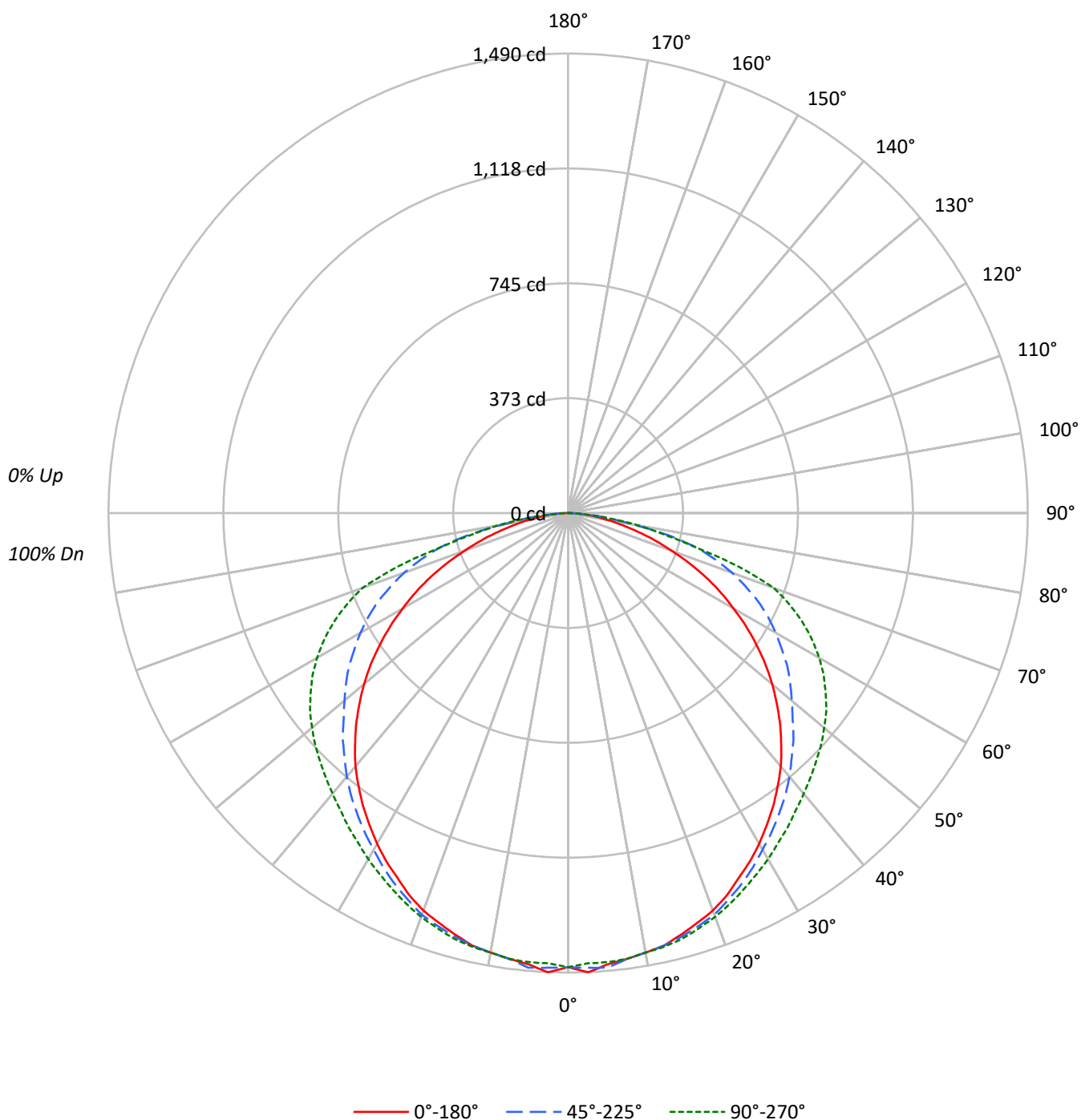
Input Watts (W): 57.64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1981	1981	1981
5°	1979	1989	1965
10°	1969	1959	1960
15°	1958	1953	1964
20°	1946	1947	1959
25°	1918	1925	1953
30°	1897	1899	1957
35°	1871	1887	1971
40°	1846	1877	2003
45°	1804	1867	2062
50°	1756	1864	2141
55°	1688	1892	2231
60°	1597	1916	2327
65°	1490	1945	2412
70°	1312	1941	2453
75°	1113	1859	1861
80°	904	1265	1391
85°	692	692	637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	3.0
10°-20°	401.5	8.7
20°-30°	611.8	13.2
30°-40°	748.6	16.1
40°-50°	805.5	17.4
50°-60°	780.2	16.8
60°-70°	660.9	14.3
70°-80°	399.5	8.6
80°-90°	87.8	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°	1153.1	24.9
0°-40°	1901.7	41.0
0°-60°	3487.4	75.2
0°-90°	4635.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4635.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1469	1469	1480	1472	1462	140
15°	1415	1418	1422	1426	1429	400
25°	1307	1314	1328	1339	1346	603
35°	1159	1166	1192	1224	1242	725
45°	972	990	1033	1098	1138	749
55°	745	778	868	968	1019	666
65°	493	547	680	788	839	486
75°	234	317	428	436	425	251
85°	58	68	72	68	65	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1472.4	1472.4	1472.4	1472.4	1472.4
2.5°	1490.4	1486.8	1476.0	1468.8	1461.6
5°	1468.8	1468.8	1479.6	1472.4	1461.6
7.5°	1458.0	1458.0	1458.0	1476.0	1458.0
10°	1447.2	1450.8	1447.2	1461.6	1447.2
12.5°	1436.4	1436.4	1436.4	1440.0	1440.0
15°	1414.8	1418.4	1422.0	1425.6	1429.2
17.5°	1393.2	1396.8	1404.0	1407.6	1411.2
20°	1371.6	1375.2	1386.0	1386.0	1393.2
22.5°	1342.8	1342.8	1357.2	1360.8	1371.6
25°	1306.8	1314.0	1328.4	1339.2	1346.4
27.5°	1274.4	1281.6	1296.0	1310.4	1321.2
30°	1238.4	1245.6	1260.0	1281.6	1296.0
32.5°	1198.8	1206.0	1227.6	1252.8	1267.2
35°	1159.2	1166.4	1191.6	1224.0	1242.0
37.5°	1116.0	1126.8	1155.6	1191.6	1213.2
40°	1072.8	1083.6	1116.0	1155.6	1188.0
42.5°	1022.4	1036.8	1072.8	1126.8	1162.8
45°	972.0	990.0	1033.2	1098.0	1137.6
47.5°	918.0	936.0	986.4	1069.2	1112.4
50°	864.0	885.6	946.8	1036.8	1083.6
52.5°	806.4	828.0	907.2	1004.4	1054.8
55°	745.2	777.6	867.6	968.4	1018.8
57.5°	684.0	720.0	820.8	928.8	982.8
60°	619.2	662.4	777.6	885.6	939.6
62.5°	558.0	604.8	730.8	838.8	892.8
65°	493.2	547.2	680.4	788.4	838.8
67.5°	424.8	493.2	622.8	727.2	777.6
70°	356.4	435.6	565.2	662.4	709.2
72.5°	295.2	378.0	500.4	583.2	583.2
75°	234.0	316.8	428.4	435.6	424.8
77.5°	180.0	259.2	334.8	306.0	313.2
80°	133.2	198.0	212.4	223.2	230.4
82.5°	90.0	133.2	136.8	144.0	144.0
85°	57.6	68.4	72.0	68.4	64.8
87.5°	25.2	28.8	21.6	14.4	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)