

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-LD5-60-RDP-UNV-L850-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-LD5-60-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4431.3 lumens
Efficiency: N/A
Efficacy: 84.9 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

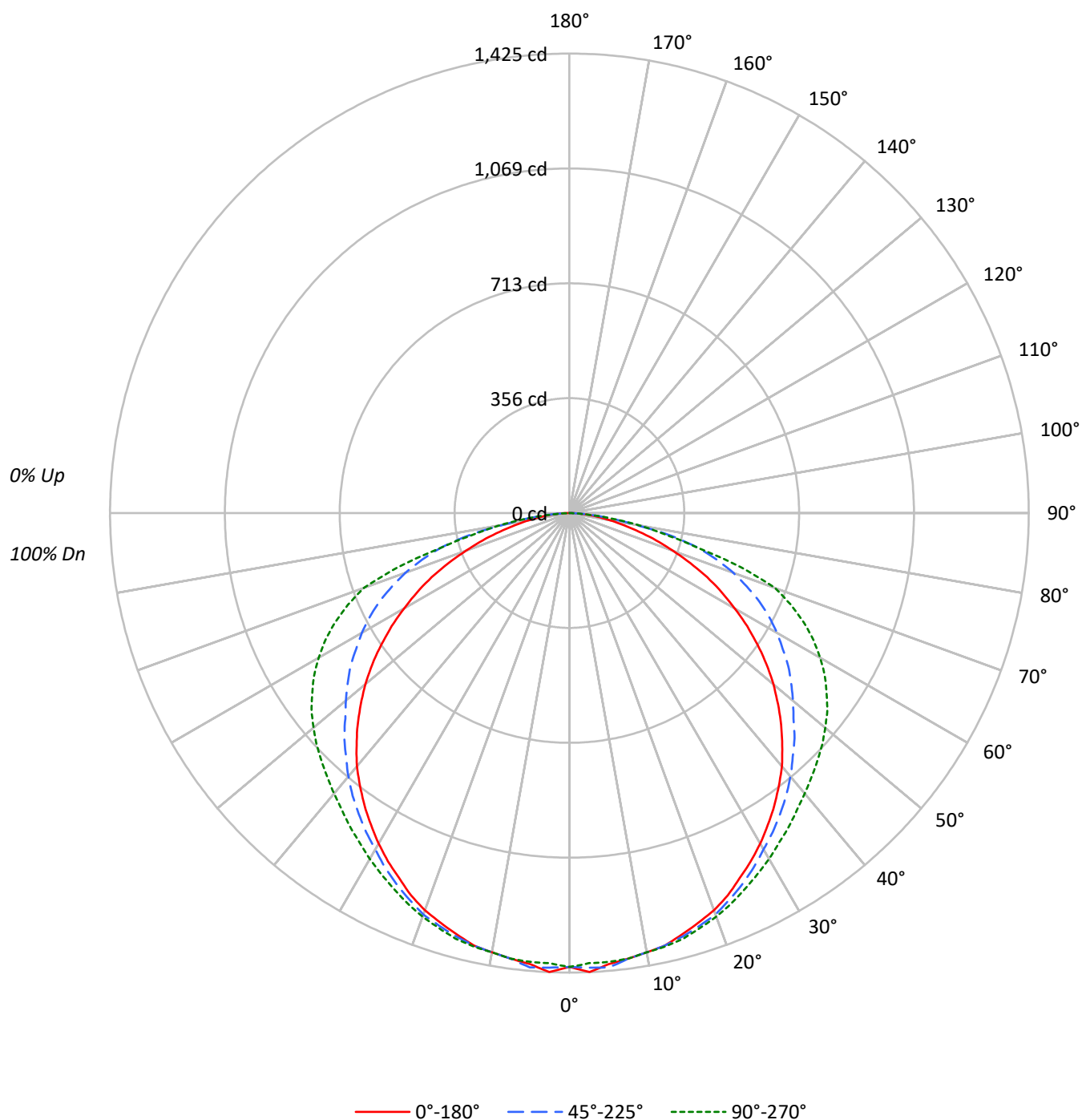
Input Watts (W): 52.17
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83		
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68		
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56		
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47		
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31		
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28		
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25		
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1894	1894	1894
5°	1892	1902	1879
10°	1882	1873	1874
15°	1871	1867	1878
20°	1860	1861	1873
25°	1833	1840	1867
30°	1813	1816	1871
35°	1789	1804	1884
40°	1764	1794	1914
45°	1725	1785	1971
50°	1679	1782	2046
55°	1613	1809	2132
60°	1527	1832	2224
65°	1425	1859	2305
70°	1254	1855	2345
75°	1064	1777	1779
80°	864	1209	1329
85°	662	661	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	3.0
10°-20°	383.8	8.7
20°-30°	584.8	13.2
30°-40°	715.6	16.1
40°-50°	770.0	17.4
50°-60°	745.8	16.8
60°-70°	631.8	14.3
70°-80°	381.9	8.6
80°-90°	83.9	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°	1102.3	24.9
0°-40°	1817.9	41.0
0°-60°	3333.7	75.2
0°-90°	4431.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4431.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1404	1404	1414	1408	1397	133
15°	1352	1356	1359	1363	1366	382
25°	1249	1256	1270	1280	1287	577
35°	1108	1115	1139	1170	1187	693
45°	929	946	988	1050	1087	716
55°	712	743	829	926	974	636
65°	472	523	650	754	802	464
75°	224	303	410	416	406	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°	1407.5	1407.5	1407.5	1407.5	1407.5
2.5°	1424.7	1421.3	1410.9	1404.0	1397.2
5°	1404.0	1404.0	1414.4	1407.5	1397.2
7.5°	1393.7	1393.7	1393.7	1410.9	1393.7
10°	1383.4	1386.8	1383.4	1397.2	1383.4
12.5°	1373.1	1373.1	1373.1	1376.5	1376.5
15°	1352.4	1355.9	1359.3	1362.8	1366.2
17.5°	1331.8	1335.2	1342.1	1345.5	1349.0
20°	1311.1	1314.6	1324.9	1324.9	1331.8
22.5°	1283.6	1283.6	1297.4	1300.8	1311.1
25°	1249.2	1256.1	1269.8	1280.2	1287.0
27.5°	1218.2	1225.1	1238.9	1252.6	1263.0
30°	1183.8	1190.7	1204.5	1225.1	1238.9
32.5°	1145.9	1152.8	1173.5	1197.6	1211.3
35°	1108.1	1115.0	1139.1	1170.0	1187.2
37.5°	1066.8	1077.1	1104.7	1139.1	1159.7
40°	1025.5	1035.8	1066.8	1104.7	1135.6
42.5°	977.3	991.1	1025.5	1077.1	1111.5
45°	929.1	946.4	987.7	1049.6	1087.4
47.5°	877.5	894.7	942.9	1022.1	1063.4
50°	825.9	846.6	905.1	991.1	1035.8
52.5°	770.8	791.5	867.2	960.1	1008.3
55°	712.3	743.3	829.4	925.7	973.9
57.5°	653.8	688.3	784.6	887.9	939.5
60°	591.9	633.2	743.3	846.6	898.2
62.5°	533.4	578.1	698.6	801.8	853.4
65°	471.5	523.1	650.4	753.6	801.8
67.5°	406.1	471.5	595.3	695.1	743.3
70°	340.7	416.4	540.3	633.2	677.9
72.5°	282.2	361.3	478.3	557.5	557.5
75°	223.7	302.8	409.5	416.4	406.1
77.5°	172.1	247.8	320.0	292.5	299.4
80°	127.3	189.3	203.0	213.4	220.2
82.5°	86.0	127.3	130.8	137.7	137.7
85°	55.1	65.4	68.8	65.4	61.9
87.5°	24.1	27.5	20.6	13.8	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)