

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: P345076

Luminaire Tested: **24CZ-75-L840-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1905-313-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-75-L840-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6485.9 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

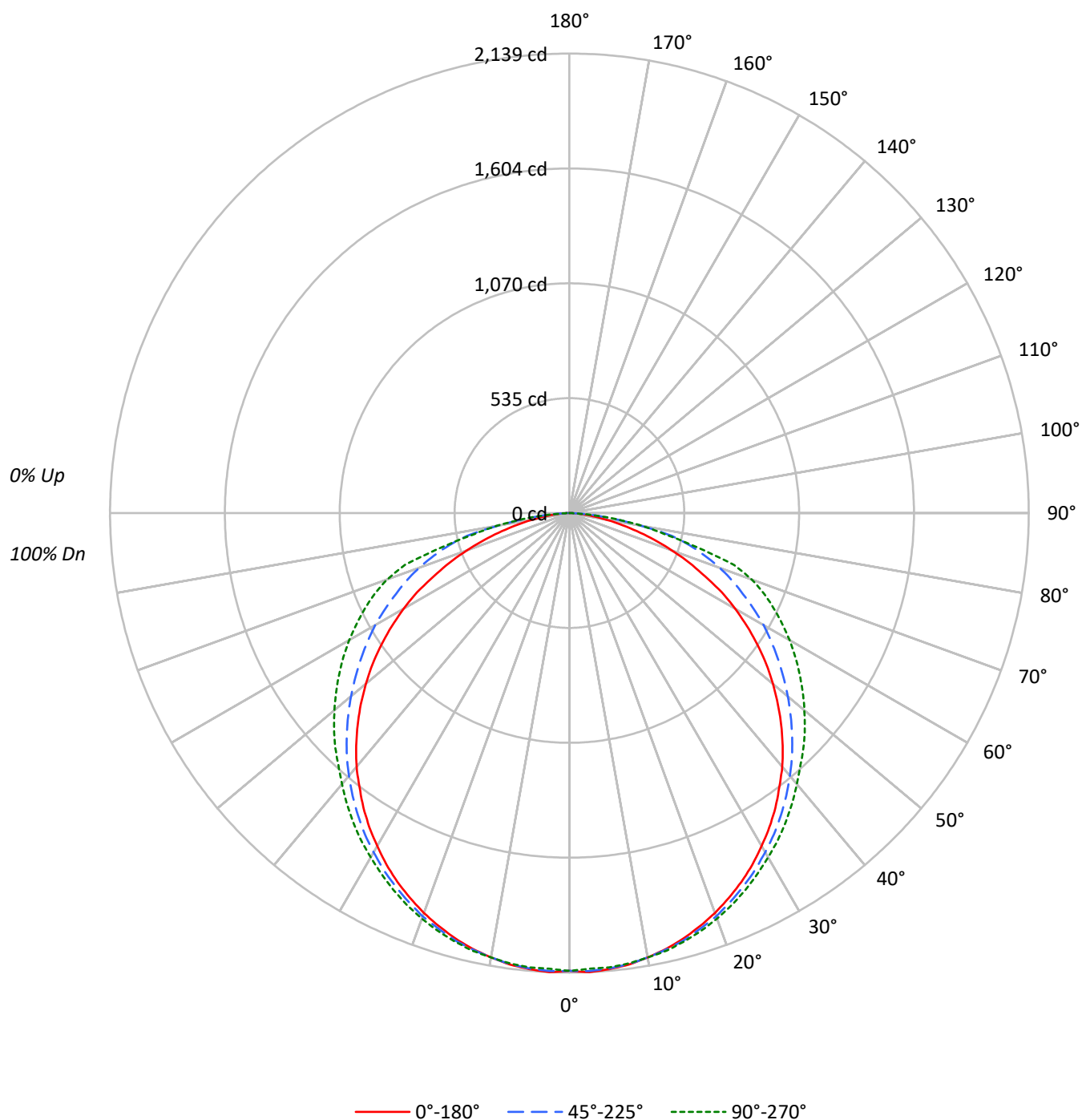
Input Watts (W): 69.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	81	76	72	77	74	70	68		
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57		
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48		
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41		
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36		
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	32		
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28		
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25		
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2867	2867	2867
5°	2878	2874	2867
10°	2870	2870	2870
15°	2856	2868	2875
20°	2836	2860	2876
25°	2813	2846	2875
30°	2780	2832	2875
35°	2747	2820	2884
40°	2708	2806	2894
45°	2654	2791	2934
50°	2588	2780	2989
55°	2509	2783	3070
60°	2400	2811	3185
65°	2220	2840	3344
70°	2000	2929	3552
75°	1690	3019	3177
80°	1313	2583	2669
85°	943	1758	1544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.0	3.1
10°-20°	580.0	8.9
20°-30°	882.1	13.6
30°-40°	1071.7	16.5
40°-50°	1131.1	17.4
50°-60°	1062.8	16.4
60°-70°	875.0	13.5
70°-80°	551.2	8.5
80°-90°	130.2	2.0
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°	1664.1	25.7
0°-40°	2735.7	42.2
0°-60°	4929.6	76.0
0°-90°	6485.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6485.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2131	2131	2131	2131	2131	
5°	2131	2120	2128	2125	2123	202
15°	2050	2042	2059	2064	2064	578
25°	1895	1892	1917	1928	1936	873
35°	1673	1681	1717	1739	1756	1046
45°	1395	1417	1467	1509	1542	1075
55°	1070	1109	1186	1270	1309	955
65°	697	764	892	1006	1050	693
75°	325	425	581	634	611	347
85°	61	103	114	106	100	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2131.0	2131.0	2131.0	2131.0	2131.0
2.5°	2139.3	2125.4	2133.8	2131.0	2122.7
5°	2131.0	2119.9	2128.2	2125.4	2122.7
7.5°	2119.9	2108.8	2117.1	2114.3	2114.3
10°	2100.4	2092.1	2100.4	2100.4	2100.4
12.5°	2078.2	2069.9	2081.0	2083.8	2086.5
15°	2050.4	2042.1	2058.8	2064.3	2064.3
17.5°	2017.1	2011.5	2028.2	2033.8	2039.3
20°	1981.0	1978.2	1997.6	2003.2	2008.8
22.5°	1939.3	1939.3	1958.7	1964.3	1975.4
25°	1894.8	1892.1	1917.1	1928.2	1936.5
27.5°	1844.8	1844.8	1872.6	1886.5	1894.8
30°	1789.3	1794.8	1822.6	1839.3	1850.4
32.5°	1733.7	1739.3	1772.6	1792.0	1805.9
35°	1672.6	1680.9	1717.0	1739.3	1755.9
37.5°	1605.9	1619.8	1658.7	1683.7	1703.1
40°	1542.0	1553.1	1597.6	1625.3	1647.6
42.5°	1469.7	1489.2	1533.7	1567.0	1592.0
45°	1394.7	1417.0	1467.0	1508.6	1542.0
47.5°	1316.9	1344.7	1397.5	1453.1	1486.4
50°	1236.4	1266.9	1328.1	1394.7	1428.1
52.5°	1155.8	1189.1	1255.8	1333.6	1369.7
55°	1069.7	1108.6	1186.4	1269.7	1308.6
57.5°	980.8	1025.2	1114.1	1208.6	1247.5
60°	891.9	939.1	1044.7	1139.1	1183.6
62.5°	800.2	853.0	966.9	1075.2	1116.9
65°	697.4	764.0	891.9	1005.8	1050.2
67.5°	602.9	672.4	819.6	933.5	980.8
70°	508.4	589.0	744.6	858.5	903.0
72.5°	414.0	508.4	661.2	777.9	802.9
75°	325.1	425.1	580.7	633.5	611.2
77.5°	238.9	350.1	489.0	461.2	455.7
80°	169.5	277.8	333.4	336.2	344.5
82.5°	108.4	205.6	216.7	219.5	222.3
85°	61.1	102.8	113.9	105.6	100.0
87.5°	27.8	33.3	27.8	19.4	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)