

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: P345065

Luminaire Tested: **24CZ-60-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345065
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-60-L850-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5711.8 lumens
Efficiency: N/A
Efficacy: 109.4 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

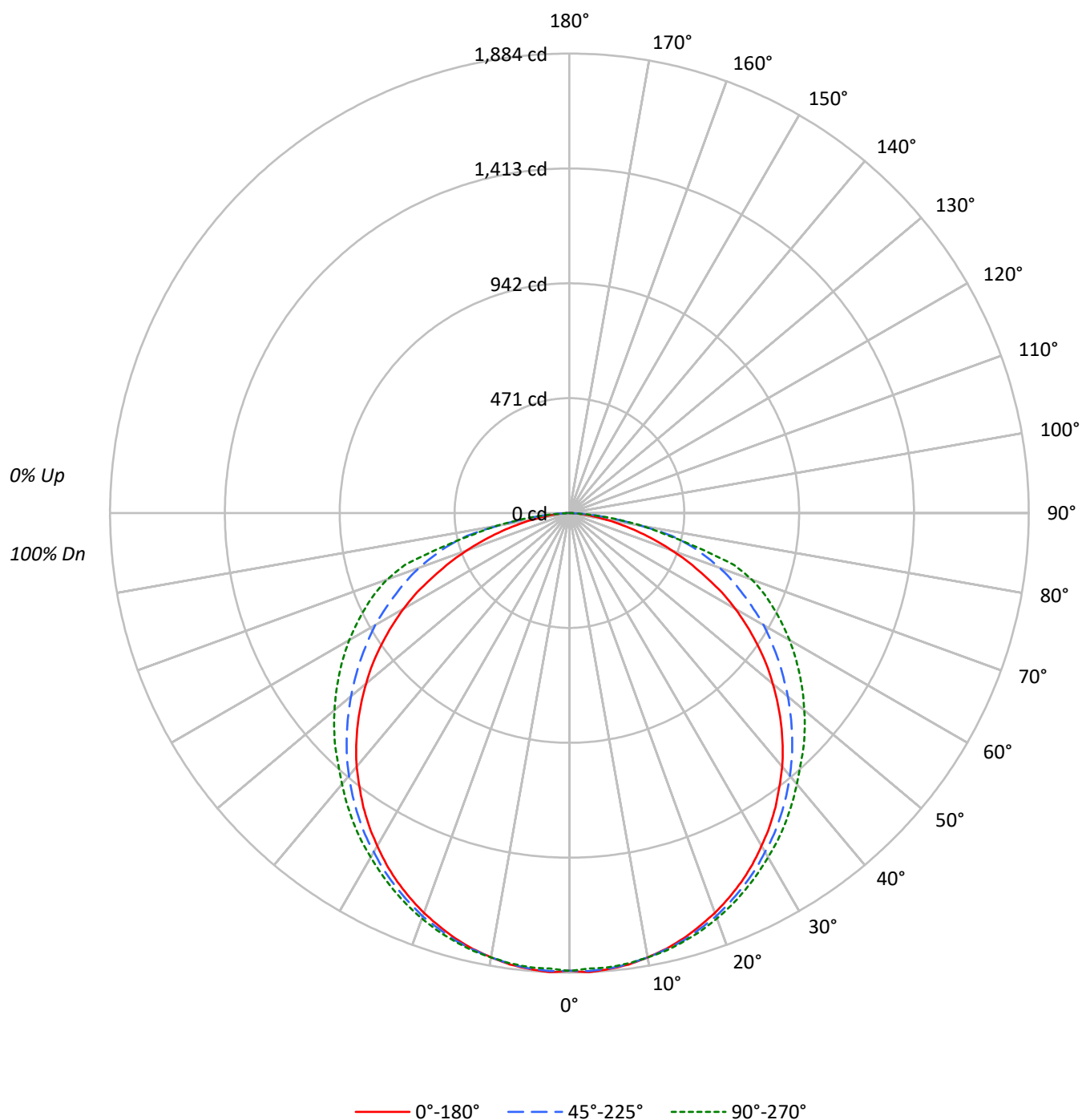
Input Watts (W): 52.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
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°	2525	2525	2525
5°	2535	2531	2525
10°	2527	2527	2527
15°	2515	2525	2532
20°	2498	2519	2533
25°	2477	2506	2532
30°	2448	2494	2532
35°	2419	2484	2540
40°	2385	2471	2548
45°	2337	2458	2584
50°	2279	2448	2632
55°	2210	2451	2703
60°	2113	2476	2805
65°	1955	2500	2945
70°	1762	2579	3128
75°	1488	2659	2798
80°	1157	2275	2351
85°	831	1548	1360



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	3.1
10°-20°	510.8	8.9
20°-30°	776.8	13.6
30°-40°	943.7	16.5
40°-50°	996.1	17.4
50°-60°	935.9	16.4
60°-70°	770.5	13.5
70°-80°	485.4	8.5
80°-90°	114.6	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°	1465.4	25.7
0°-40°	2409.2	42.2
0°-60°	4341.2	76.0
0°-90°	5711.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5711.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1877	1877	1877	1877	1877	
5°	1877	1867	1874	1872	1869	178
15°	1806	1798	1813	1818	1818	509
25°	1669	1666	1688	1698	1705	769
35°	1473	1480	1512	1532	1546	921
45°	1228	1248	1292	1329	1358	947
55°	942	976	1045	1118	1152	841
65°	614	673	785	886	925	610
75°	286	374	511	558	538	306
85°	54	90	100	93	88	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	1884.0	1871.8	1879.1	1876.7	1869.3
5°	1876.7	1866.9	1874.2	1871.8	1869.3
7.5°	1866.9	1857.1	1864.4	1862.0	1862.0
10°	1849.7	1842.4	1849.7	1849.7	1849.7
12.5°	1830.2	1822.8	1832.6	1835.1	1837.5
15°	1805.7	1798.4	1813.0	1817.9	1817.9
17.5°	1776.3	1771.4	1786.1	1791.0	1795.9
20°	1744.5	1742.1	1759.2	1764.1	1769.0
22.5°	1707.8	1707.8	1725.0	1729.8	1739.6
25°	1668.7	1666.2	1688.3	1698.0	1705.4
27.5°	1624.6	1624.6	1649.1	1661.3	1668.7
30°	1575.7	1580.6	1605.1	1619.7	1629.5
32.5°	1526.8	1531.7	1561.0	1578.1	1590.4
35°	1472.9	1480.3	1512.1	1531.7	1546.3
37.5°	1414.2	1426.5	1460.7	1482.7	1499.9
40°	1357.9	1367.7	1406.9	1431.3	1450.9
42.5°	1294.3	1311.5	1350.6	1380.0	1402.0
45°	1228.3	1247.8	1291.9	1328.6	1357.9
47.5°	1159.8	1184.2	1230.7	1279.6	1309.0
50°	1088.8	1115.7	1169.5	1228.3	1257.6
52.5°	1017.8	1047.2	1105.9	1174.4	1206.2
55°	942.0	976.2	1044.8	1118.2	1152.4
57.5°	863.7	902.8	981.1	1064.3	1098.6
60°	785.4	827.0	920.0	1003.2	1042.3
62.5°	704.7	751.1	851.5	946.9	983.6
65°	614.1	672.9	785.4	885.7	924.9
67.5°	530.9	592.1	721.8	822.1	863.7
70°	447.8	518.7	655.7	756.0	795.2
72.5°	364.6	447.8	582.3	685.1	707.1
75°	286.3	374.4	511.4	557.9	538.3
77.5°	210.4	308.3	430.6	406.2	401.3
80°	149.3	244.7	293.6	296.1	303.4
82.5°	95.4	181.1	190.8	193.3	195.7
85°	53.8	90.5	100.3	93.0	88.1
87.5°	24.5	29.4	24.5	17.1	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)