

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: P345069

Luminaire Tested: **24CZ-65-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345069
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-65-L850-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6161.6 lumens
Efficiency: N/A
Efficacy: 107.0 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

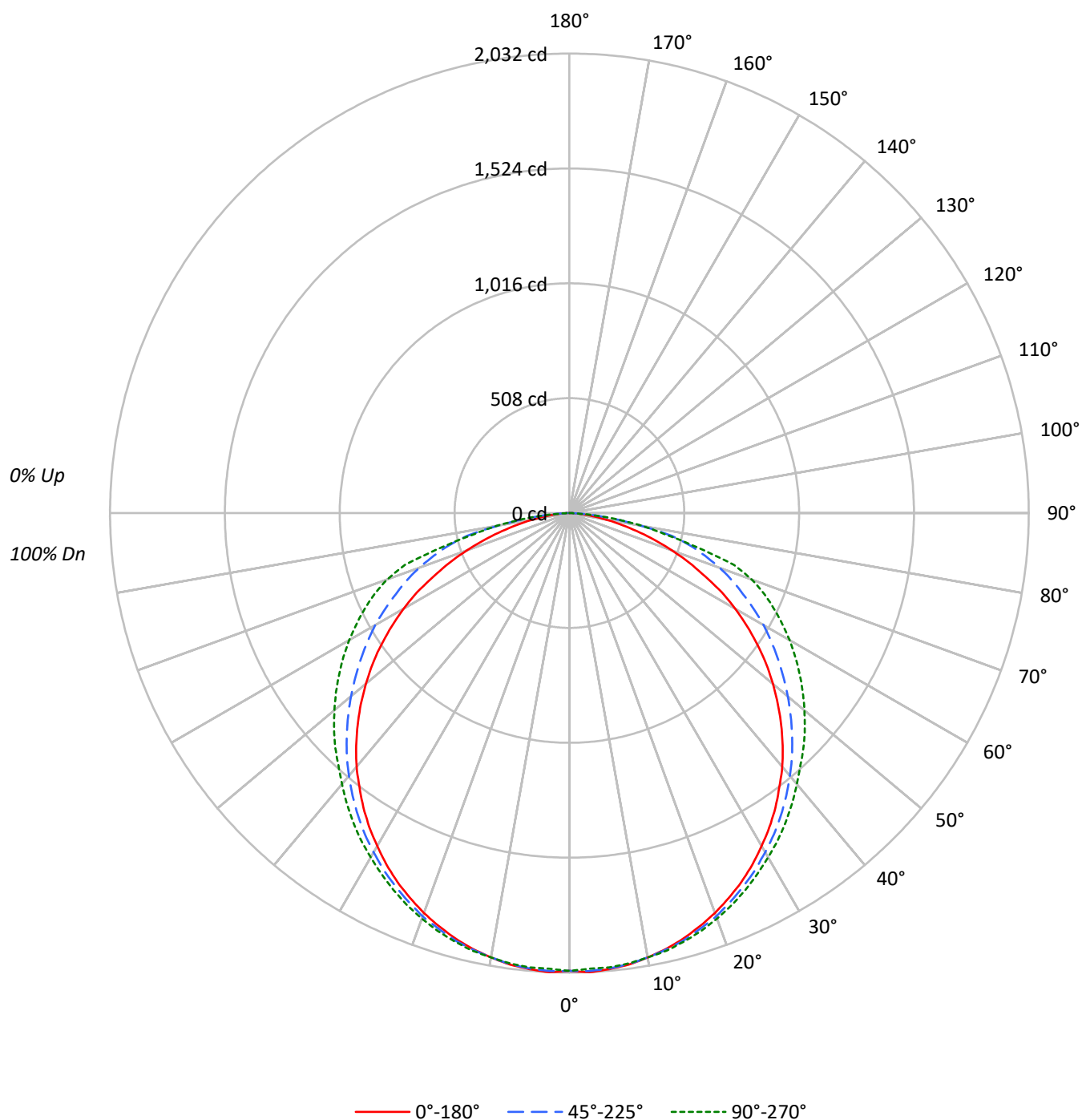
Input Watts (W): 57.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2724	2724	2724
5°	2734	2731	2724
10°	2726	2726	2726
15°	2713	2724	2732
20°	2695	2717	2732
25°	2672	2704	2731
30°	2641	2690	2731
35°	2610	2679	2740
40°	2573	2666	2749
45°	2521	2652	2787
50°	2459	2641	2840
55°	2384	2644	2916
60°	2280	2671	3026
65°	2109	2698	3176
70°	1900	2783	3375
75°	1605	2868	3019
80°	1247	2454	2536
85°	897	1670	1467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	3.1
10°-20°	551.0	8.9
20°-30°	838.0	13.6
30°-40°	1018.1	16.5
40°-50°	1074.5	17.4
50°-60°	1009.7	16.4
60°-70°	831.2	13.5
70°-80°	523.7	8.5
80°-90°	123.6	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°	1580.9	25.7
0°-40°	2598.9	42.2
0°-60°	4683.1	76.0
0°-90°	6161.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6161.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2024	2024	2024	2024	2024	
5°	2024	2014	2022	2019	2016	192
15°	1948	1940	1956	1961	1961	549
25°	1800	1798	1821	1832	1840	829
35°	1589	1597	1631	1652	1668	993
45°	1325	1346	1394	1433	1465	1022
55°	1016	1053	1127	1206	1243	907
65°	662	726	847	956	998	658
75°	309	404	552	602	581	330
85°	58	98	108	100	95	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2024.5	2024.5	2024.5	2024.5	2024.5
2.5°	2032.4	2019.2	2027.1	2024.5	2016.5
5°	2024.5	2013.9	2021.8	2019.2	2016.5
7.5°	2013.9	2003.3	2011.3	2008.6	2008.6
10°	1995.4	1987.5	1995.4	1995.4	1995.4
12.5°	1974.3	1966.4	1977.0	1979.6	1982.2
15°	1947.9	1940.0	1955.8	1961.1	1961.1
17.5°	1916.2	1911.0	1926.8	1932.1	1937.4
20°	1881.9	1879.3	1897.8	1903.0	1908.3
22.5°	1842.3	1842.3	1860.8	1866.1	1876.7
25°	1800.1	1797.5	1821.2	1831.8	1839.7
27.5°	1752.6	1752.6	1779.0	1792.2	1800.1
30°	1699.8	1705.1	1731.5	1747.3	1757.9
32.5°	1647.0	1652.3	1684.0	1702.4	1715.6
35°	1589.0	1596.9	1631.2	1652.3	1668.1
37.5°	1525.6	1538.8	1575.8	1599.5	1618.0
40°	1464.9	1475.5	1517.7	1544.1	1565.2
42.5°	1396.3	1414.7	1457.0	1488.7	1512.4
45°	1325.0	1346.1	1393.6	1433.2	1464.9
47.5°	1251.1	1277.5	1327.6	1380.4	1412.1
50°	1174.6	1203.6	1261.7	1325.0	1356.7
52.5°	1098.0	1129.7	1193.0	1266.9	1301.3
55°	1016.2	1053.1	1127.0	1206.2	1243.2
57.5°	931.7	974.0	1058.4	1148.2	1185.1
60°	847.3	892.1	992.4	1082.2	1124.4
62.5°	760.2	810.3	918.5	1021.5	1061.1
65°	662.5	725.9	847.3	955.5	997.7
67.5°	572.8	638.7	778.6	886.9	931.7
70°	483.0	559.6	707.4	815.6	857.8
72.5°	393.3	483.0	628.2	739.0	762.8
75°	308.8	403.8	551.6	601.8	580.7
77.5°	227.0	332.6	464.5	438.1	432.9
80°	161.0	263.9	316.7	319.4	327.3
82.5°	102.9	195.3	205.9	208.5	211.2
85°	58.1	97.7	108.2	100.3	95.0
87.5°	26.4	31.7	26.4	18.5	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)