

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: P732281

Luminaire Tested: **24CZ2-45HE-SQR-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-45HE-SQR-B2750-W2D-2700K
Description: 2X4 4500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

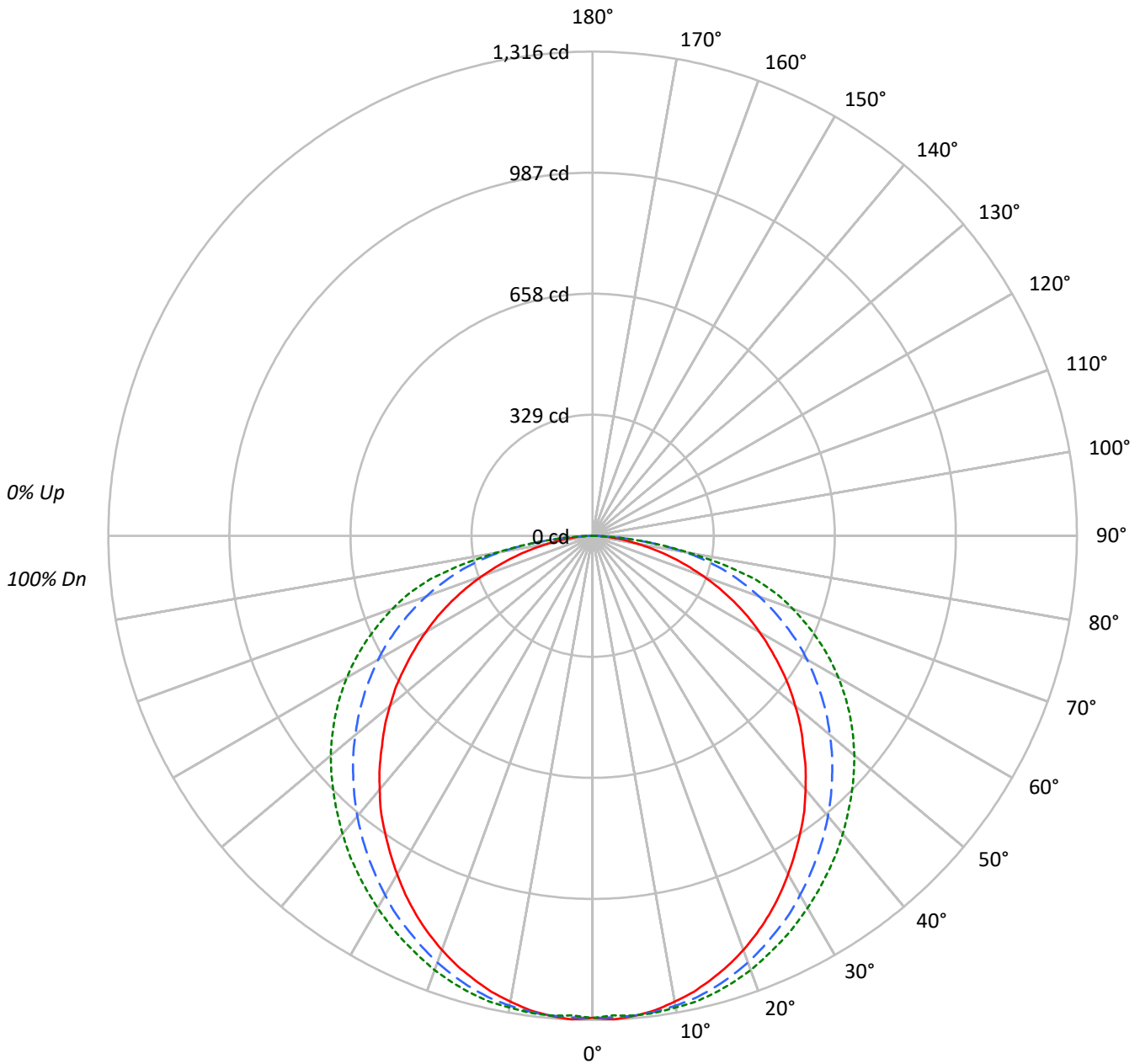
Lumens per Lamp: N/A
Luminaire Lumens: 4099.0 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): 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				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	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				100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82				82
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67				67
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56				56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47				47
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41				41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35				35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31				31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28				28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25				25
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1849	1849	1849
5°	1856	1854	1854
10°	1843	1858	1866
15°	1823	1859	1879
20°	1799	1854	1887
25°	1769	1844	1893
30°	1732	1838	1904
35°	1695	1833	1922
40°	1658	1833	1948
45°	1616	1837	1986
50°	1578	1849	2039
55°	1532	1869	2101
60°	1479	1899	2178
65°	1415	1935	2269
70°	1312	1983	2385
75°	1189	2052	2495
80°	1001	2057	2145
85°	766	1555	1555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	3.0
10°-20°	357.8	8.7
20°-30°	543.5	13.3
30°-40°	661.1	16.1
40°-50°	703.9	17.2
50°-60°	670.4	16.4
60°-70°	560.6	13.7
70°-80°	373.8	9.1
80°-90°	103.4	2.5
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°	1025.7	25.0
0°-40°	1686.9	41.2
0°-60°	3061.2	74.7
0°-90°	4099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1310	1302	1309	1309	1309	124
15°	1248	1251	1272	1282	1286	352
25°	1136	1150	1184	1205	1216	523
35°	984	1012	1064	1099	1115	616
45°	809	853	920	972	995	626
55°	623	677	759	826	854	557
65°	424	486	579	651	680	419
75°	218	287	376	440	458	231
85°	47	88	96	95	96	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.2	1310.2	1310.2	1310.2	1310.2
2.5°	1315.6	1306.1	1310.2	1310.2	1304.9
5°	1310.2	1302.1	1308.9	1308.9	1308.9
7.5°	1300.8	1294.0	1304.9	1307.5	1307.5
10°	1285.9	1283.3	1296.8	1300.8	1302.1
12.5°	1269.7	1268.3	1287.3	1292.6	1296.8
15°	1247.9	1250.7	1272.3	1281.8	1285.9
17.5°	1225.0	1230.3	1254.8	1268.3	1272.3
20°	1197.9	1206.0	1234.5	1247.9	1256.2
22.5°	1168.2	1180.3	1210.1	1226.3	1235.8
25°	1135.7	1150.4	1184.4	1204.6	1215.5
27.5°	1100.5	1119.5	1158.7	1181.6	1192.5
30°	1062.5	1084.1	1127.6	1154.7	1168.2
32.5°	1023.3	1048.9	1096.4	1126.2	1142.4
35°	984.0	1012.5	1063.9	1099.1	1115.3
37.5°	944.8	973.1	1030.1	1067.9	1088.3
40°	900.1	933.9	994.9	1036.8	1057.2
42.5°	856.9	893.3	958.4	1004.3	1026.1
45°	809.4	852.8	920.4	971.9	994.9
47.5°	766.1	809.4	882.5	936.7	962.4
50°	718.8	764.7	841.9	901.5	928.6
52.5°	672.7	720.2	801.3	864.9	892.0
55°	622.7	676.7	759.4	825.7	854.0
57.5°	572.6	630.8	715.9	785.1	813.6
60°	523.9	583.3	672.7	741.8	771.5
62.5°	475.1	534.6	628.0	698.4	726.9
65°	423.6	485.9	579.3	651.0	679.5
67.5°	372.2	437.1	530.5	602.3	629.4
70°	318.0	387.2	480.6	550.9	578.0
72.5°	268.1	337.0	429.0	498.2	523.9
75°	218.0	286.9	376.3	439.9	457.5
77.5°	169.2	238.2	318.0	360.1	364.1
80°	123.1	188.2	253.1	265.3	263.9
82.5°	82.5	140.7	174.7	175.9	180.0
85°	47.3	88.0	96.0	94.8	96.0
87.5°	19.0	31.1	27.1	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)