

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: P277084

Luminaire Tested: **24CZ2-65HE-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65HE-RDP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3767.8 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

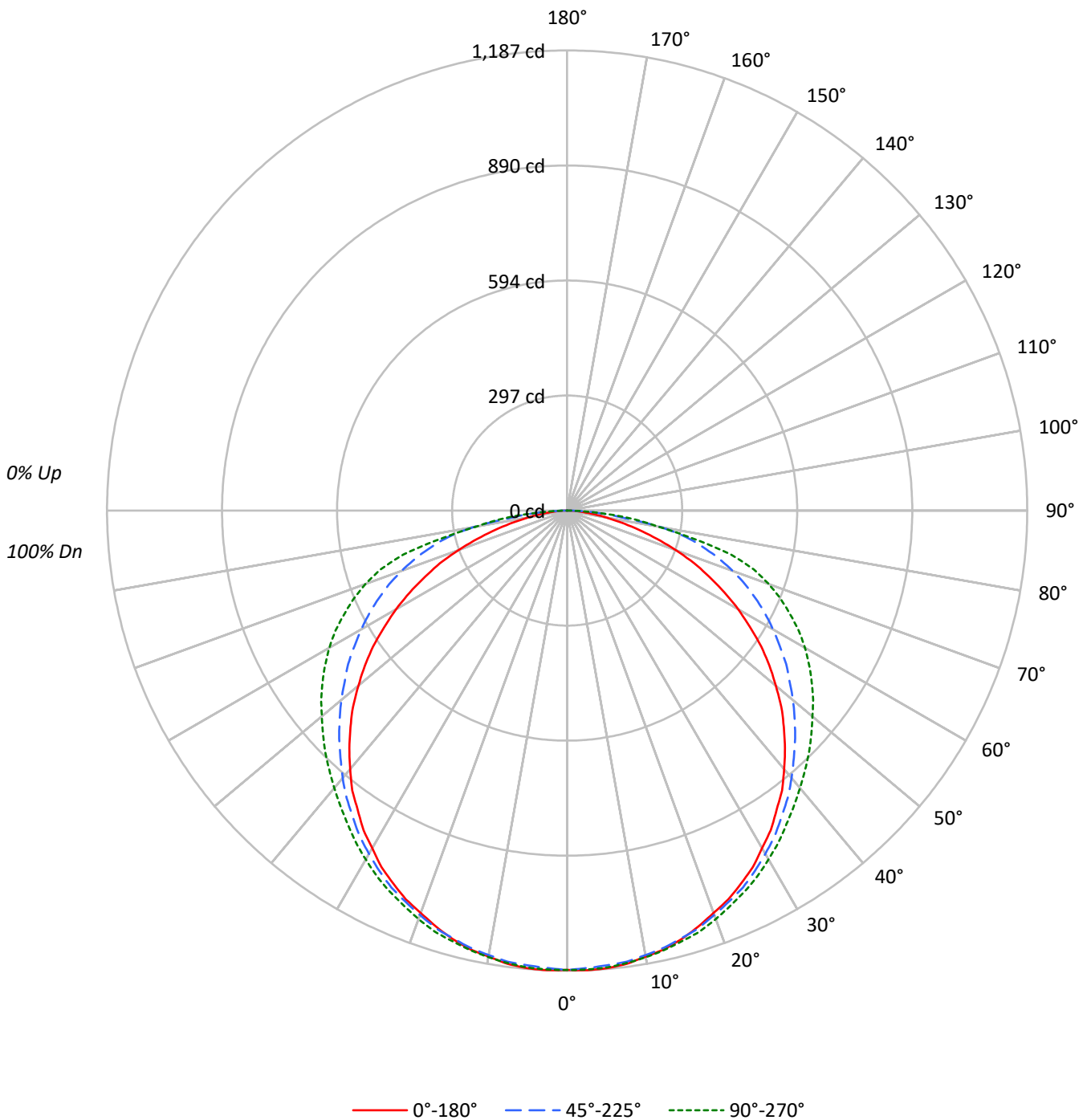
Input Watts (W): 49.848
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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	88	86	84	82					82			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67					67			
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56					56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35					35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27					27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1594	1594	1594
5°	1600	1590	1598
10°	1596	1591	1598
15°	1593	1591	1601
20°	1581	1589	1606
25°	1576	1593	1609
30°	1562	1588	1614
35°	1547	1584	1621
40°	1530	1582	1641
45°	1504	1583	1678
50°	1471	1592	1729
55°	1434	1618	1806
60°	1373	1650	1906
65°	1285	1708	2023
70°	1169	1786	2176
75°	991	1885	2273
80°	782	1897	1839
85°	577	1442	1616



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	3.0
10°-20°	323.5	8.6
20°-30°	494.7	13.1
30°-40°	604.7	16.0
40°-50°	644.5	17.1
50°-60°	616.2	16.4
60°-70°	522.0	13.9
70°-80°	350.8	9.3
80°-90°	99.0	2.6
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°	930.5	24.7
0°-40°	1535.2	40.7
0°-60°	2796.0	74.2
0°-90°	3767.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3767.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1185	1183	1177	1183	1183	113
15°	1144	1144	1142	1151	1149	322
25°	1062	1065	1073	1082	1084	489
35°	942	949	964	983	987	590
45°	790	804	832	867	882	610
55°	611	634	690	744	770	544
65°	404	445	536	607	635	401
75°	191	260	363	424	437	204
85°	37	77	93	101	105	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1184.9	1184.9	1184.9	1184.9	1184.9
2.5°	1186.7	1186.7	1181.1	1184.9	1184.9
5°	1184.9	1183.0	1177.4	1183.0	1183.0
7.5°	1179.3	1177.4	1173.7	1179.3	1177.4
10°	1168.1	1168.1	1164.3	1169.9	1169.9
12.5°	1158.7	1156.8	1155.0	1162.5	1160.6
15°	1143.8	1143.8	1141.9	1151.2	1149.4
17.5°	1125.1	1126.9	1128.8	1136.3	1138.2
20°	1104.5	1108.3	1110.1	1121.3	1121.3
22.5°	1085.8	1087.7	1091.4	1102.6	1102.6
25°	1061.5	1065.3	1072.7	1082.1	1084.0
27.5°	1037.2	1039.1	1048.4	1061.5	1063.4
30°	1005.5	1011.1	1022.3	1037.2	1039.1
32.5°	977.4	983.0	996.1	1011.1	1014.8
35°	941.9	949.4	964.3	983.0	986.8
37.5°	910.2	915.8	934.4	955.0	960.6
40°	870.9	882.1	900.8	925.1	934.4
42.5°	831.7	842.9	865.3	897.1	908.3
45°	790.5	803.6	831.7	867.2	882.1
47.5°	749.4	764.4	796.1	837.3	854.1
50°	702.7	721.4	760.6	807.4	826.1
52.5°	657.9	680.3	723.3	775.6	799.9
55°	611.1	633.6	689.6	743.8	770.0
57.5°	558.8	588.7	650.4	712.0	740.1
60°	510.2	538.2	613.0	680.3	708.3
62.5°	457.9	495.3	575.6	646.6	674.7
65°	403.7	444.8	536.4	607.4	635.4
67.5°	355.1	399.9	497.1	568.1	596.2
70°	297.2	353.2	454.1	525.2	553.2
72.5°	243.0	304.6	409.3	478.4	504.6
75°	190.6	259.8	362.6	424.2	437.3
77.5°	142.0	214.9	314.0	340.1	330.8
80°	100.9	171.9	244.8	231.7	237.3
82.5°	65.4	130.8	151.4	171.9	177.5
85°	37.4	76.6	93.4	100.9	104.7
87.5°	16.8	28.0	37.4	37.4	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)