

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: P277085

Luminaire Tested: **24CZ2-65HE-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277085
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-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3844.2 lumens
Efficiency: N/A
Efficacy: 76.8 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

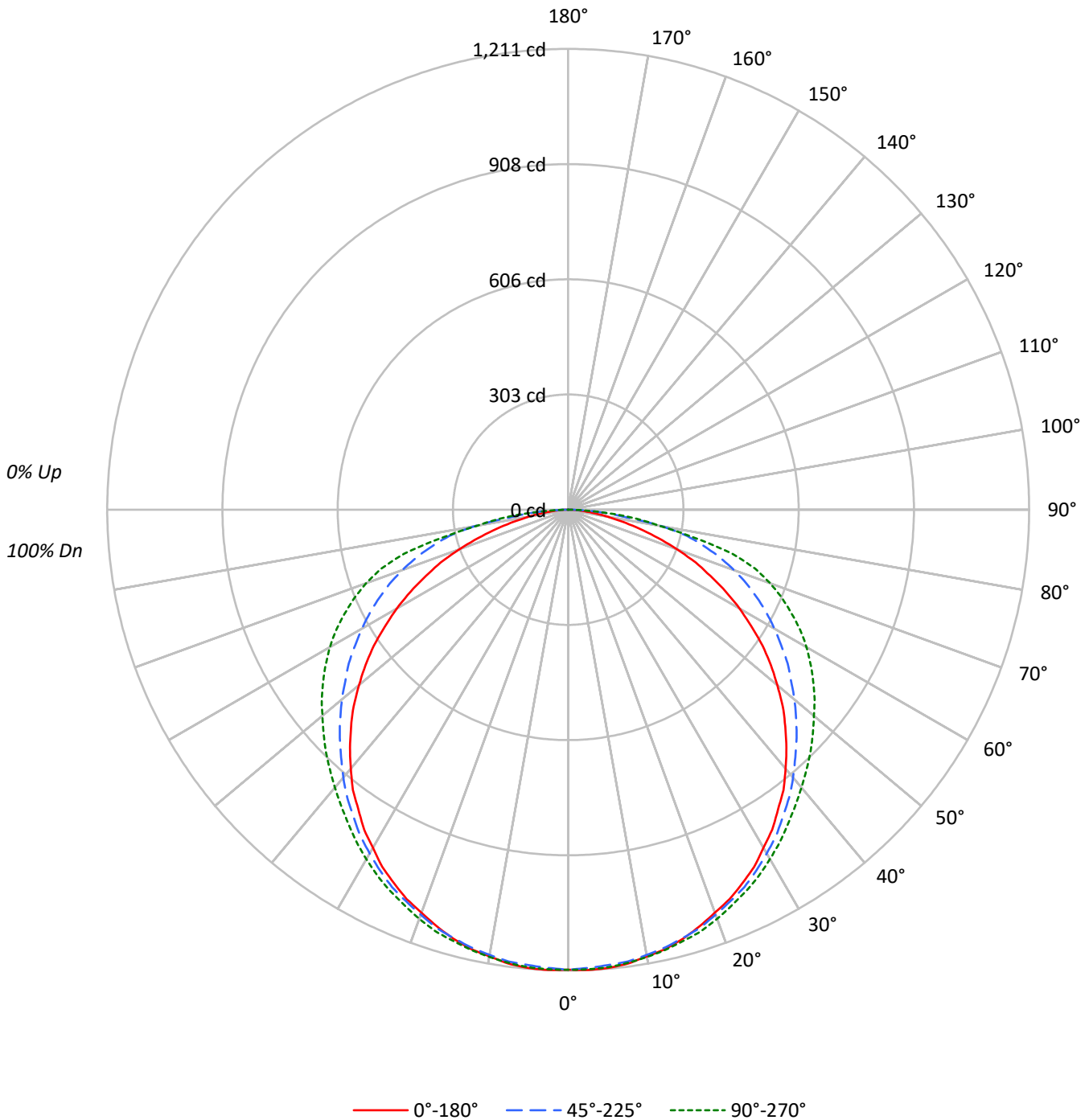
Input Watts (W): 50.034
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1627	1627	1627
5°	1633	1623	1630
10°	1628	1623	1631
15°	1625	1623	1634
20°	1614	1622	1638
25°	1608	1625	1642
30°	1594	1620	1647
35°	1578	1616	1654
40°	1561	1614	1675
45°	1535	1615	1713
50°	1501	1625	1764
55°	1463	1650	1843
60°	1401	1683	1945
65°	1311	1742	2064
70°	1193	1823	2220
75°	1011	1923	2320
80°	798	1936	1877
85°	588	1471	1649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	3.0
10°-20°	330.0	8.6
20°-30°	504.7	13.1
30°-40°	617.0	16.0
40°-50°	657.6	17.1
50°-60°	628.7	16.4
60°-70°	532.6	13.9
70°-80°	357.9	9.3
80°-90°	101.0	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°	949.4	24.7
0°-40°	1566.4	40.7
0°-60°	2852.7	74.2
0°-90°	3844.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3844.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1209	1209	1209	1209	1209	
5°	1209	1207	1201	1207	1207	115
15°	1167	1167	1165	1175	1173	329
25°	1083	1087	1094	1104	1106	499
35°	961	969	984	1003	1007	602
45°	807	820	848	885	900	622
55°	624	646	704	759	786	555
65°	412	454	547	620	648	409
75°	194	265	370	433	446	208
85°	38	78	95	103	107	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1208.9	1208.9	1208.9	1208.9	1208.9
2.5°	1210.8	1210.8	1205.1	1208.9	1208.9
5°	1208.9	1207.0	1201.3	1207.0	1207.0
7.5°	1203.2	1201.3	1197.4	1203.2	1201.3
10°	1191.7	1191.7	1187.9	1193.6	1193.6
12.5°	1182.2	1180.3	1178.4	1186.0	1184.1
15°	1166.9	1166.9	1165.0	1174.6	1172.7
17.5°	1147.9	1149.8	1151.7	1159.3	1161.2
20°	1126.9	1130.7	1132.6	1144.1	1144.1
22.5°	1107.8	1109.7	1113.5	1125.0	1125.0
25°	1083.0	1086.9	1094.5	1104.0	1105.9
27.5°	1058.3	1060.2	1069.7	1083.0	1084.9
30°	1025.8	1031.6	1043.0	1058.3	1060.2
32.5°	997.2	1003.0	1016.3	1031.6	1035.4
35°	961.0	968.6	983.9	1003.0	1006.8
37.5°	928.6	934.3	953.4	974.4	980.1
40°	888.6	900.0	919.1	943.8	953.4
42.5°	848.5	860.0	882.8	915.2	926.7
45°	806.6	819.9	848.5	884.7	900.0
47.5°	764.6	779.9	812.3	854.2	871.4
50°	716.9	736.0	776.1	823.7	842.8
52.5°	671.2	694.1	737.9	791.3	816.1
55°	623.5	646.4	703.6	758.9	785.6
57.5°	570.1	600.6	663.6	726.5	755.1
60°	520.5	549.1	625.4	694.1	722.7
62.5°	467.2	505.3	587.3	659.7	688.3
65°	411.9	453.8	547.2	619.7	648.3
67.5°	362.3	408.0	507.2	579.7	608.3
70°	303.2	360.4	463.3	535.8	564.4
72.5°	247.9	310.8	417.6	488.1	514.8
75°	194.5	265.0	369.9	432.8	446.2
77.5°	144.9	219.3	320.3	347.0	337.5
80°	103.0	175.4	249.8	236.4	242.2
82.5°	66.7	133.5	154.4	175.4	181.1
85°	38.1	78.2	95.3	103.0	106.8
87.5°	17.2	28.6	38.1	38.1	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)