

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: P276844

Luminaire Tested: **24CZ2-65HE-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276844
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-L93050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3817.5 lumens
Efficiency: N/A
Efficacy: 76.1 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

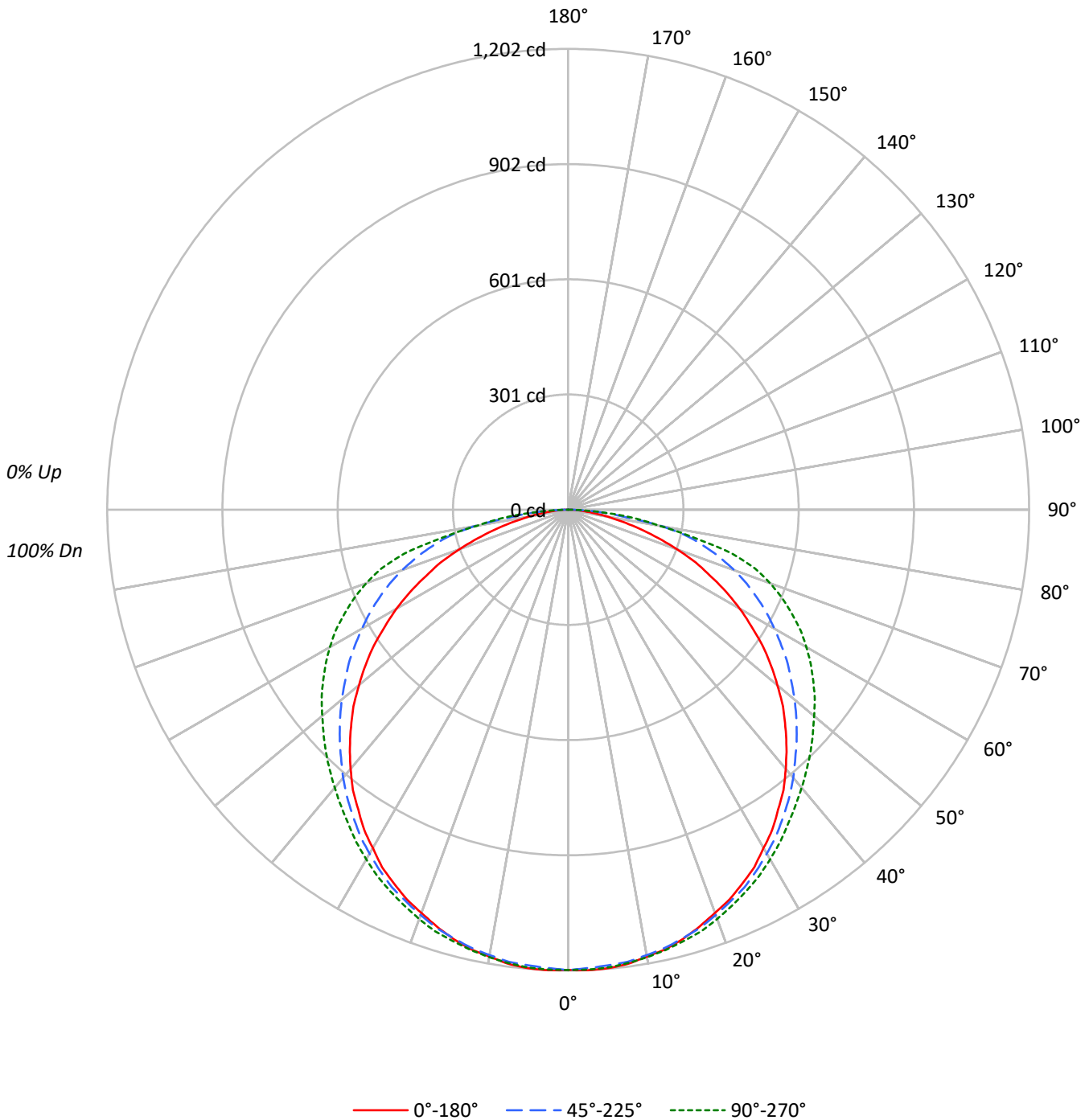
Input Watts (W): 50.189868
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	67	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°	1615	1615	1615
5°	1621	1611	1619
10°	1617	1612	1619
15°	1614	1612	1622
20°	1602	1611	1627
25°	1597	1614	1630
30°	1583	1609	1636
35°	1567	1605	1642
40°	1550	1603	1663
45°	1524	1603	1701
50°	1490	1613	1752
55°	1453	1639	1830
60°	1391	1671	1931
65°	1302	1730	2050
70°	1185	1810	2205
75°	1004	1909	2303
80°	793	1922	1863
85°	585	1462	1636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	3.0
10°-20°	327.7	8.6
20°-30°	501.2	13.1
30°-40°	612.7	16.0
40°-50°	653.0	17.1
50°-60°	624.3	16.4
60°-70°	528.9	13.9
70°-80°	355.5	9.3
80°-90°	100.3	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°	942.8	24.7
0°-40°	1555.5	40.7
0°-60°	2832.8	74.2
0°-90°	3817.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3817.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1200	1200	1200	1200	1200	
5°	1200	1199	1193	1199	1199	114
15°	1159	1159	1157	1166	1164	327
25°	1076	1079	1087	1096	1098	496
35°	954	962	977	996	1000	598
45°	801	814	843	879	894	618
55°	619	642	699	754	780	551
65°	409	451	543	615	644	406
75°	193	263	367	430	443	207
85°	38	78	95	102	106	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1200.5	1200.5	1200.5	1200.5	1200.5
2.5°	1202.4	1202.4	1196.7	1200.5	1200.5
5°	1200.5	1198.6	1192.9	1198.6	1198.6
7.5°	1194.8	1192.9	1189.1	1194.8	1192.9
10°	1183.5	1183.5	1179.7	1185.3	1185.3
12.5°	1174.0	1172.1	1170.2	1177.8	1175.9
15°	1158.8	1158.8	1156.9	1166.4	1164.5
17.5°	1139.9	1141.8	1143.7	1151.3	1153.2
20°	1119.1	1122.9	1124.8	1136.1	1136.1
22.5°	1100.1	1102.0	1105.8	1117.2	1117.2
25°	1075.5	1079.3	1086.9	1096.4	1098.2
27.5°	1050.9	1052.8	1062.3	1075.5	1077.4
30°	1018.7	1024.4	1035.8	1050.9	1052.8
32.5°	990.3	996.0	1009.2	1024.4	1028.2
35°	954.3	961.9	977.1	996.0	999.8
37.5°	922.1	927.8	946.8	967.6	973.3
40°	882.4	893.7	912.7	937.3	946.8
42.5°	842.6	854.0	876.7	908.9	920.3
45°	801.0	814.2	842.6	878.6	893.7
47.5°	759.3	774.5	806.6	848.3	865.3
50°	712.0	730.9	770.7	818.0	836.9
52.5°	666.5	689.2	732.8	785.8	810.4
55°	619.2	641.9	698.7	753.6	780.1
57.5°	566.2	596.5	658.9	721.4	749.8
60°	516.9	545.3	621.1	689.2	717.6
62.5°	463.9	501.8	583.2	655.2	683.6
65°	409.0	450.7	543.4	615.4	643.8
67.5°	359.8	405.2	503.7	575.6	604.0
70°	301.1	357.9	460.1	532.1	560.5
72.5°	246.2	308.6	414.7	484.7	511.3
75°	193.1	263.2	367.3	429.8	443.1
77.5°	143.9	217.8	318.1	344.6	335.2
80°	102.3	174.2	248.1	234.8	240.5
82.5°	66.3	132.5	153.4	174.2	179.9
85°	37.9	77.6	94.7	102.3	106.0
87.5°	17.0	28.4	37.9	37.9	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)