

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: P276939

Luminaire Tested: **24CZ2-60HE-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276939
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: 24CZ2-60HE-RDP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3830.8 lumens
Efficiency: N/A
Efficacy: 85.5 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

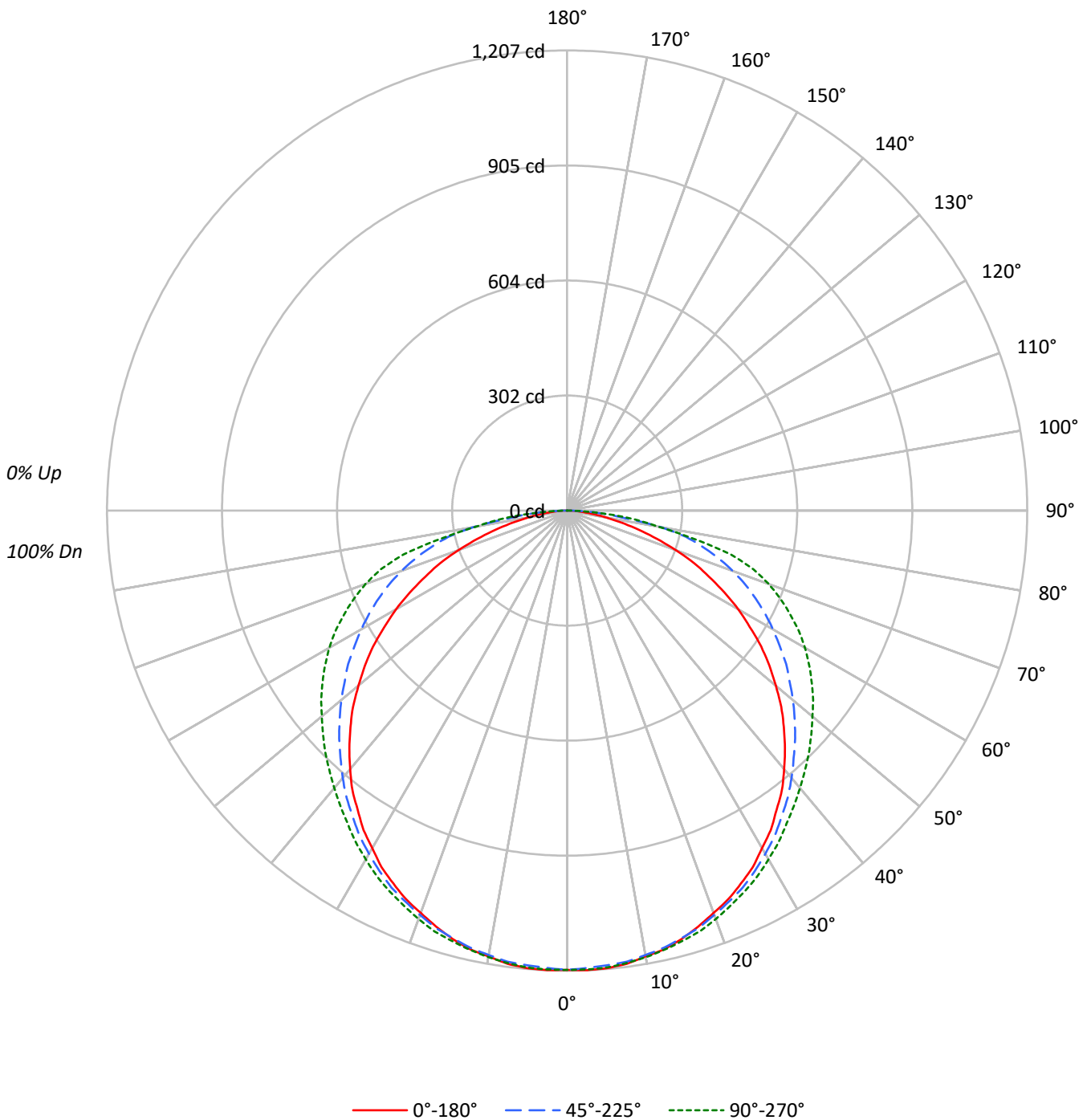
Input Watts (W): 44.826
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1621	1621	1621
5°	1627	1617	1625
10°	1623	1617	1625
15°	1620	1617	1628
20°	1608	1616	1632
25°	1602	1619	1636
30°	1588	1615	1641
35°	1573	1611	1648
40°	1555	1609	1669
45°	1529	1609	1707
50°	1496	1619	1758
55°	1457	1645	1837
60°	1396	1677	1938
65°	1307	1736	2057
70°	1188	1816	2212
75°	1007	1916	2311
80°	795	1929	1870
85°	587	1467	1643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	3.0
10°-20°	328.9	8.6
20°-30°	502.9	13.1
30°-40°	614.8	16.1
40°-50°	655.3	17.1
50°-60°	626.5	16.4
60°-70°	530.7	13.9
70°-80°	356.7	9.3
80°-90°	100.6	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°	946.1	24.7
0°-40°	1561.0	40.7
0°-60°	2842.8	74.2
0°-90°	3830.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3830.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1205	1205	1205	1205	1205	
5°	1205	1203	1197	1203	1203	114
15°	1163	1163	1161	1170	1169	328
25°	1079	1083	1091	1100	1102	497
35°	958	965	980	1000	1003	600
45°	804	817	846	882	897	620
55°	621	644	701	756	783	553
65°	410	452	545	618	646	407
75°	194	264	369	431	445	208
85°	38	78	95	103	106	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1204.7	1204.7	1204.7	1204.7	1204.7
2.5°	1206.6	1206.6	1200.9	1204.7	1204.7
5°	1204.7	1202.8	1197.1	1202.8	1202.8
7.5°	1199.0	1197.1	1193.3	1199.0	1197.1
10°	1187.6	1187.6	1183.8	1189.5	1189.5
12.5°	1178.1	1176.2	1174.3	1181.9	1180.0
15°	1162.9	1162.9	1161.0	1170.5	1168.6
17.5°	1143.9	1145.8	1147.7	1155.3	1157.2
20°	1123.0	1126.8	1128.7	1140.1	1140.1
22.5°	1104.0	1105.9	1109.7	1121.1	1121.1
25°	1079.3	1083.1	1090.7	1100.2	1102.1
27.5°	1054.6	1056.5	1066.0	1079.3	1081.2
30°	1022.3	1028.0	1039.4	1054.6	1056.5
32.5°	993.8	999.5	1012.8	1028.0	1031.8
35°	957.7	965.3	980.5	999.5	1003.3
37.5°	925.4	931.1	950.1	971.0	976.7
40°	885.5	896.9	915.9	940.6	950.1
42.5°	845.6	857.0	879.8	912.1	923.5
45°	803.8	817.1	845.6	881.7	896.9
47.5°	762.0	777.2	809.5	851.3	868.4
50°	714.5	733.5	773.4	820.9	839.9
52.5°	668.8	691.6	735.4	788.6	813.3
55°	621.3	644.1	701.2	756.3	782.9
57.5°	568.1	598.5	661.2	724.0	752.5
60°	518.7	547.2	623.2	691.6	720.2
62.5°	465.5	503.5	585.2	657.4	685.9
65°	410.4	452.2	545.3	617.5	646.0
67.5°	361.0	406.6	505.4	577.6	606.1
70°	302.1	359.1	461.7	533.9	562.4
72.5°	247.0	309.7	416.1	486.4	513.0
75°	193.8	264.1	368.6	431.3	444.6
77.5°	144.4	218.5	319.2	345.8	336.3
80°	102.6	174.8	248.9	235.6	241.3
82.5°	66.5	133.0	153.9	174.8	180.5
85°	38.0	77.9	95.0	102.6	106.4
87.5°	17.1	28.5	38.0	38.0	36.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)