

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: P276764

Luminaire Tested: **24CZ2-60HE-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276764
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-L83050-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: 4030.0 lumens
Efficiency: N/A
Efficacy: 89.0 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

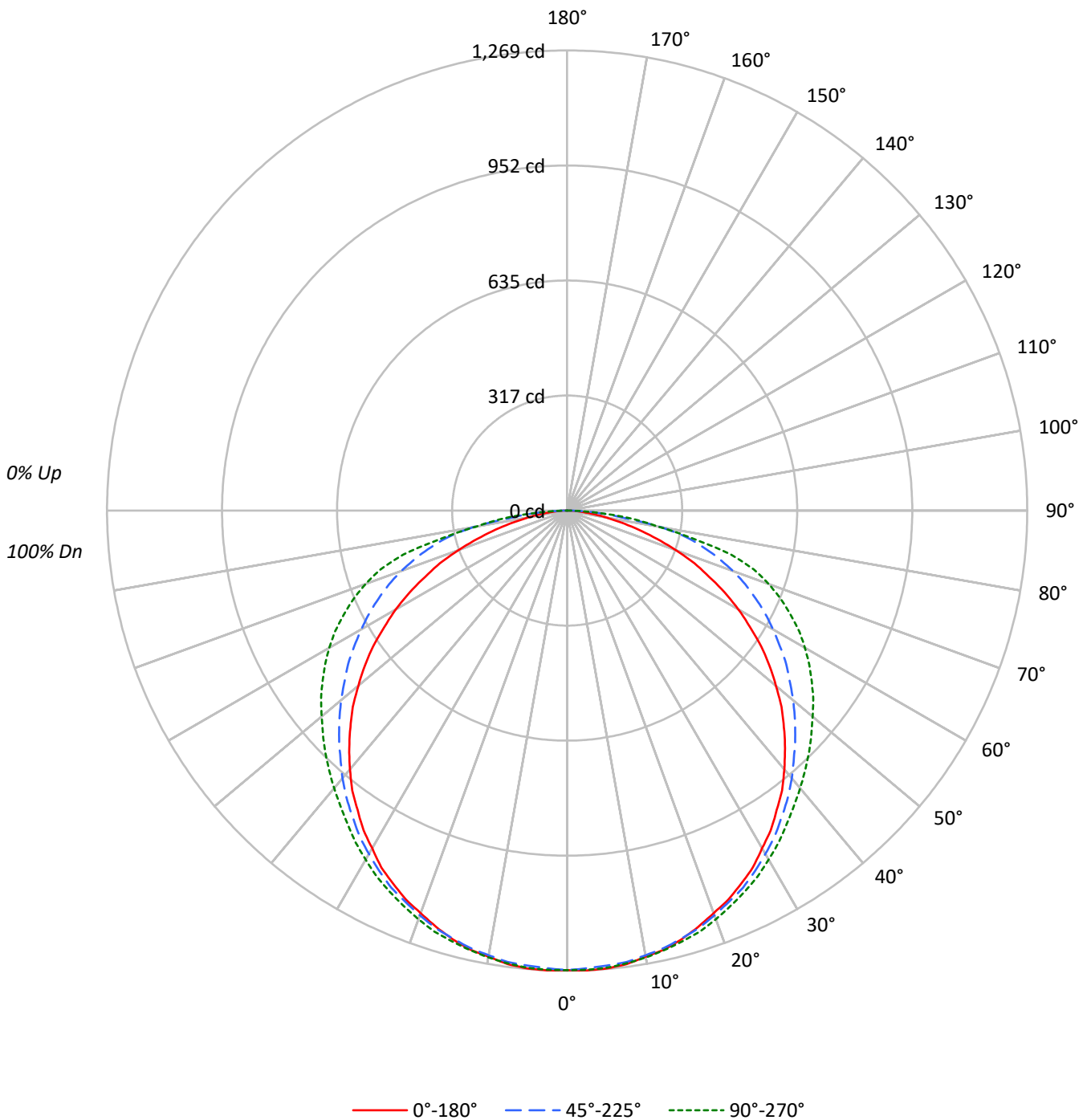
Input Watts (W): 45.286164
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1705	1705	1705
5°	1712	1701	1709
10°	1707	1701	1710
15°	1704	1701	1712
20°	1692	1700	1717
25°	1686	1703	1721
30°	1671	1699	1727
35°	1655	1694	1734
40°	1636	1692	1756
45°	1609	1693	1795
50°	1573	1703	1849
55°	1533	1730	1932
60°	1468	1764	2039
65°	1375	1826	2164
70°	1250	1911	2328
75°	1060	2016	2431
80°	836	2029	1967
85°	618	1542	1727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	3.0
10°-20°	346.0	8.6
20°-30°	529.1	13.1
30°-40°	646.8	16.0
40°-50°	689.3	17.1
50°-60°	659.1	16.4
60°-70°	558.3	13.9
70°-80°	375.3	9.3
80°-90°	105.9	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°	995.3	24.7
0°-40°	1642.1	40.7
0°-60°	2990.5	74.2
0°-90°	4030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4030.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1267	1267	1267	1267	1267	
5°	1267	1265	1259	1265	1265	120
15°	1223	1223	1221	1231	1229	345
25°	1135	1139	1147	1157	1159	523
35°	1008	1016	1031	1051	1055	631
45°	846	860	890	928	944	652
55°	654	678	738	796	824	582
65°	432	476	574	650	680	429
75°	204	278	388	454	468	218
85°	40	82	100	108	112	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1267.3	1267.3	1267.3	1267.3	1267.3
2.5°	1269.3	1269.3	1263.3	1267.3	1267.3
5°	1267.3	1265.3	1259.3	1265.3	1265.3
7.5°	1261.3	1259.3	1255.3	1261.3	1259.3
10°	1249.3	1249.3	1245.3	1251.3	1251.3
12.5°	1239.3	1237.3	1235.3	1243.3	1241.3
15°	1223.3	1223.3	1221.3	1231.3	1229.3
17.5°	1203.4	1205.4	1207.4	1215.3	1217.3
20°	1181.4	1185.4	1187.4	1199.4	1199.4
22.5°	1161.4	1163.4	1167.4	1179.4	1179.4
25°	1135.4	1139.4	1147.4	1157.4	1159.4
27.5°	1109.4	1111.4	1121.4	1135.4	1137.4
30°	1075.4	1081.4	1093.4	1109.4	1111.4
32.5°	1045.4	1051.4	1065.4	1081.4	1085.4
35°	1007.5	1015.5	1031.4	1051.4	1055.4
37.5°	973.5	979.5	999.5	1021.5	1027.4
40°	931.5	943.5	963.5	989.5	999.5
42.5°	889.5	901.5	925.5	959.5	971.5
45°	845.5	859.5	889.5	927.5	943.5
47.5°	801.6	817.6	851.5	895.5	913.5
50°	751.6	771.6	813.6	863.5	883.5
52.5°	703.6	727.6	773.6	829.6	855.5
55°	653.6	677.6	737.6	795.6	823.6
57.5°	597.7	629.7	695.6	761.6	791.6
60°	545.7	575.7	655.6	727.6	757.6
62.5°	489.7	529.7	615.7	691.6	721.6
65°	431.8	475.7	573.7	649.7	679.6
67.5°	379.8	427.8	531.7	607.7	637.7
70°	317.8	377.8	485.7	561.7	591.7
72.5°	259.9	325.8	437.8	511.7	539.7
75°	203.9	277.9	387.8	453.8	467.7
77.5°	151.9	229.9	335.8	363.8	353.8
80°	107.9	183.9	261.9	247.9	253.9
82.5°	70.0	139.9	161.9	183.9	189.9
85°	40.0	82.0	99.9	107.9	111.9
87.5°	18.0	30.0	40.0	40.0	38.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)