

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: P732227

Luminaire Tested: **24CZ2-40HE-S-B2750-W2D-3000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-40HE-S-B2750-W2D-3000K
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

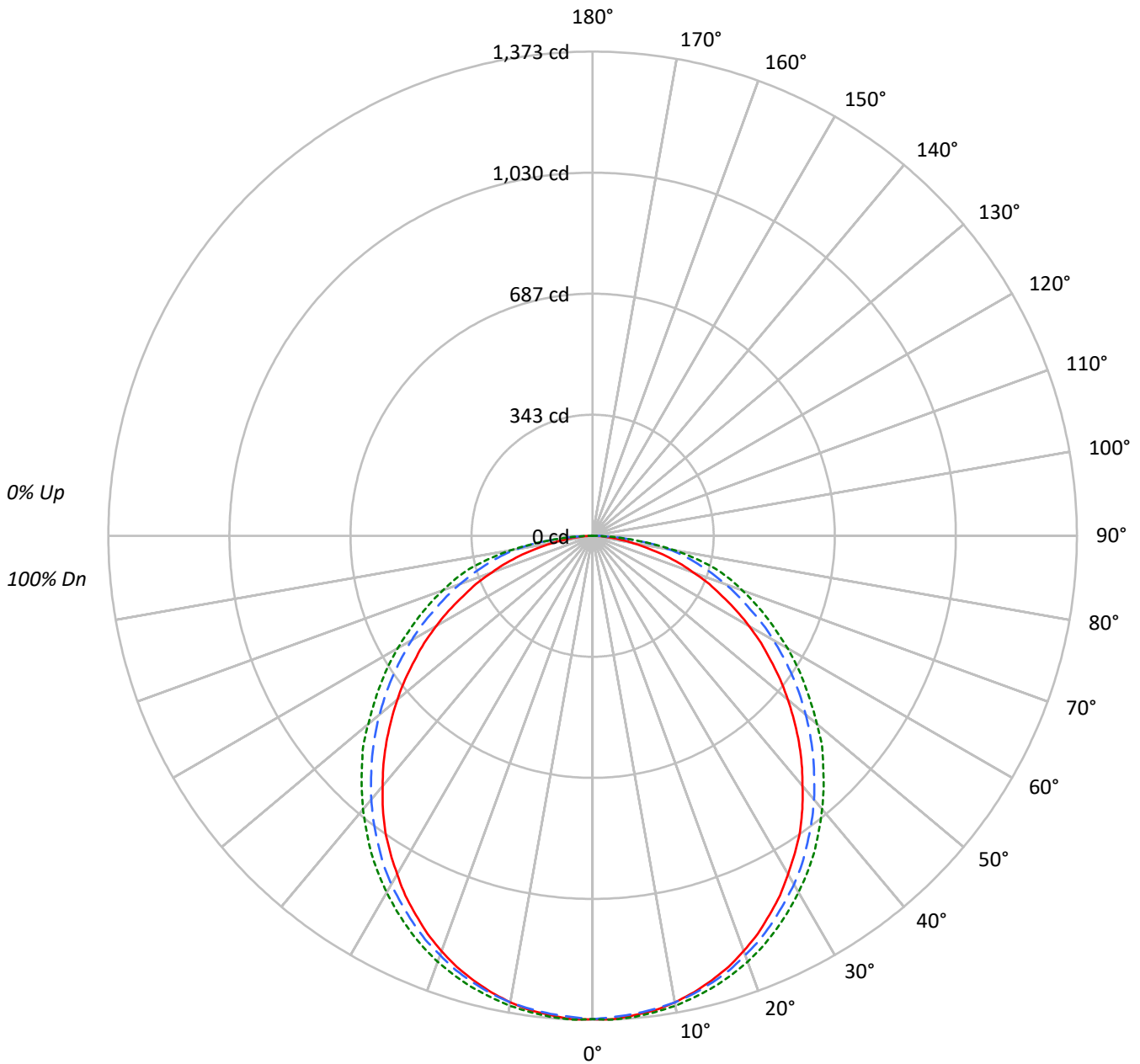
Lumens per Lamp: N/A
Luminaire Lumens: 3902.0 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 29
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1935	1935	1935
5°	1933	1928	1940
10°	1925	1925	1940
15°	1907	1916	1936
20°	1882	1901	1930
25°	1847	1882	1919
30°	1806	1860	1903
35°	1766	1830	1888
40°	1706	1799	1866
45°	1650	1764	1846
50°	1587	1731	1823
55°	1516	1699	1806
60°	1445	1672	1801
65°	1354	1643	1813
70°	1253	1652	1861
75°	1122	1683	1966
80°	907	1783	1924
85°	682	1564	1525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	3.3
10°-20°	370.8	9.5
20°-30°	557.4	14.3
30°-40°	664.0	17.0
40°-50°	679.5	17.4
50°-60°	611.8	15.7
60°-70°	480.5	12.3
70°-80°	311.8	8.0
80°-90°	96.4	2.5
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°	1058.0	27.1
0°-40°	1722.0	44.1
0°-60°	3013.3	77.2
0°-90°	3902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1365	1367	1361	1368	1370	130
15°	1305	1309	1311	1322	1325	368
25°	1186	1196	1208	1228	1232	546
35°	1025	1037	1062	1088	1096	639
45°	827	847	884	917	925	637
55°	616	643	690	726	734	552
65°	405	436	492	533	543	403
75°	206	245	309	351	361	218
85°	42	78	97	94	94	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1370.9	1370.9	1370.9	1370.9	<i>1370.9</i>
2.5°	<i>1372.1</i>	<i>1372.1</i>	<i>1365.8</i>	<i>1372.1</i>	<i>1373.3</i>
5°	1364.6	1367.1	1360.9	1368.3	<i>1369.5</i>
7.5°	1357.1	1357.1	1353.4	1360.9	<i>1362.2</i>
10°	1343.5	1344.7	1343.5	1352.2	<i>1353.4</i>
12.5°	1326.2	1328.6	1329.9	1338.6	<i>1339.8</i>
15°	1305.2	1308.9	1311.3	1322.5	<i>1325.0</i>
17.5°	1281.6	1285.3	1291.4	1303.8	<i>1306.4</i>
20°	1253.0	1258.0	1265.4	1281.6	<i>1285.3</i>
22.5°	1222.1	1227.1	1239.5	1254.2	<i>1260.5</i>
25°	1186.1	1196.0	1208.4	1228.3	<i>1232.0</i>
27.5°	1150.2	1158.8	1174.9	1196.0	<i>1201.1</i>
30°	1108.0	1121.6	1141.5	1162.5	<i>1167.5</i>
32.5°	1067.1	1080.7	1104.3	1126.7	<i>1132.8</i>
35°	1025.0	1037.4	1062.2	1088.2	<i>1095.6</i>
37.5°	976.6	992.8	1020.1	1046.1	<i>1053.5</i>
40°	925.9	945.7	976.6	1004.0	<i>1012.6</i>
42.5°	877.5	898.5	929.6	959.3	<i>969.2</i>
45°	826.7	846.6	883.7	917.2	<i>924.7</i>
47.5°	774.6	797.0	836.6	870.0	<i>882.4</i>
50°	722.6	746.2	788.3	823.0	<i>830.4</i>
52.5°	670.5	695.3	739.9	777.1	<i>780.9</i>
55°	616.0	643.3	690.4	726.3	<i>733.8</i>
57.5°	566.4	590.0	640.8	678.0	<i>686.6</i>
60°	511.9	537.9	592.4	627.2	<i>638.2</i>
62.5°	459.8	487.1	544.2	578.8	<i>588.7</i>
65°	405.3	436.3	492.0	533.0	<i>542.8</i>
67.5°	358.2	388.0	447.4	487.1	<i>497.0</i>
70°	303.6	337.2	400.4	441.3	<i>451.1</i>
72.5°	256.6	291.2	354.5	394.1	<i>409.0</i>
75°	205.8	245.4	308.7	350.8	<i>360.6</i>
77.5°	156.2	202.0	266.4	298.7	<i>298.7</i>
80°	111.6	159.9	219.4	234.3	<i>236.7</i>
82.5°	73.2	120.2	162.3	161.1	<i>161.1</i>
85°	42.1	78.1	96.6	94.2	<i>94.2</i>
87.5°	16.1	32.3	34.6	34.6	<i>33.5</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)