

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: P260933

Luminaire Tested: **24CZ-LD5-30SE-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-30SE-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2847.0 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

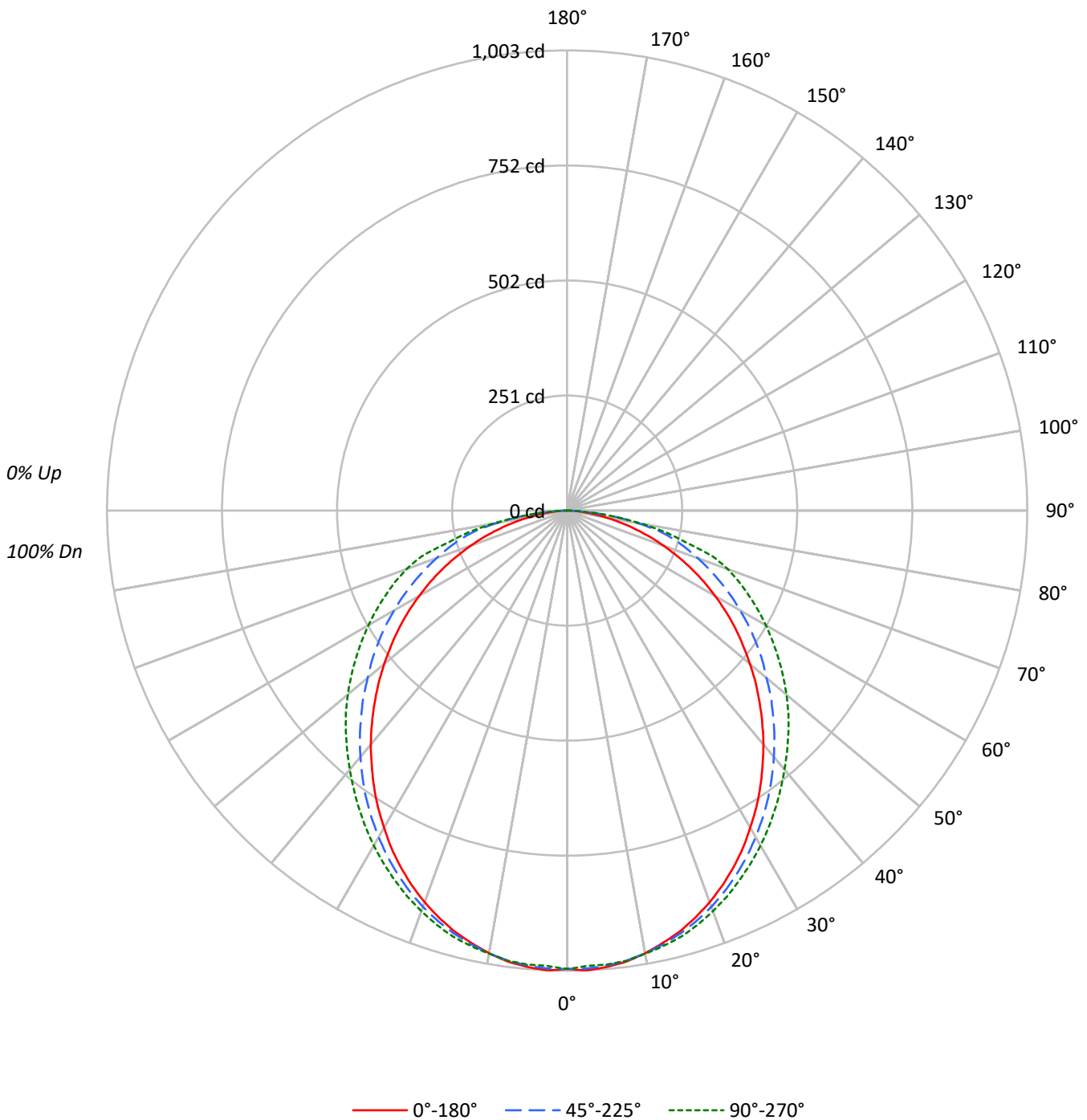
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1344	1344	1344
5°	1348	1344	1342
10°	1339	1339	1340
15°	1322	1329	1339
20°	1301	1316	1330
25°	1273	1298	1320
30°	1240	1277	1310
35°	1206	1255	1300
40°	1169	1231	1294
45°	1130	1208	1298
50°	1090	1187	1306
55°	1050	1180	1319
60°	1002	1172	1346
65°	950	1173	1390
70°	878	1193	1465
75°	786	1247	1394
80°	657	1193	1276
85°	497	919	872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	3.3
10°-20°	268.7	9.4
20°-30°	401.7	14.1
30°-40°	476.6	16.7
40°-50°	490.5	17.2
50°-60°	450.0	15.8
60°-70°	363.8	12.8
70°-80°	236.1	8.3
80°-90°	65.1	2.3
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°	764.9	26.9
0°-40°	1241.4	43.6
0°-60°	2181.9	76.6
0°-90°	2847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2847.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	998	991	995	994	993	95
15°	949	946	954	958	961	267
25°	858	859	874	882	889	395
35°	734	740	764	781	792	459
45°	594	603	635	665	682	458
55°	447	461	503	544	562	400
65°	298	316	368	417	437	295
75°	151	179	240	268	268	161
85°	32	55	60	58	56	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.1	999.1	999.1	999.1	999.1
2.5°	1003.0	995.2	999.1	998.2	993.3
5°	998.2	991.4	995.2	994.3	993.3
7.5°	991.4	984.5	989.4	988.4	989.4
10°	979.7	973.8	979.7	980.6	980.6
12.5°	965.0	960.2	968.0	969.9	971.9
15°	949.4	945.5	954.3	958.2	961.1
17.5°	929.9	927.0	937.7	942.6	946.5
20°	908.5	907.5	919.2	924.1	929.0
22.5°	884.1	884.1	897.8	903.6	910.4
25°	857.8	858.8	874.4	882.2	889.0
27.5°	829.5	830.5	849.0	858.8	866.6
30°	798.3	802.2	821.7	834.4	843.2
32.5°	767.2	772.0	793.5	808.1	817.8
35°	734.0	739.9	764.2	780.8	791.5
37.5°	699.9	706.7	733.0	751.6	764.2
40°	665.8	673.6	700.9	722.3	736.9
42.5°	629.7	638.5	668.7	694.0	709.6
45°	593.6	603.4	634.6	664.8	682.3
47.5°	557.6	569.3	602.4	635.6	654.1
50°	520.5	532.2	567.3	605.3	623.9
52.5°	483.5	497.1	536.1	575.1	593.6
55°	447.4	461.1	503.0	543.9	562.4
57.5°	410.4	424.0	469.8	512.7	531.3
60°	372.4	388.0	435.7	479.6	500.1
62.5°	335.3	351.9	402.6	449.4	468.9
65°	298.3	315.8	368.5	417.2	436.7
67.5°	260.3	280.7	335.3	385.0	405.5
70°	223.2	245.6	303.2	352.9	372.4
72.5°	187.2	211.5	271.0	321.7	333.4
75°	151.1	179.4	239.8	268.1	268.1
77.5°	117.0	148.2	204.7	215.4	221.3
80°	84.8	118.9	154.0	166.7	164.7
82.5°	56.5	90.7	110.2	110.2	107.2
85°	32.2	54.6	59.5	57.5	56.5
87.5°	13.6	20.5	18.5	14.6	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)