

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: P260630

Luminaire Tested: **24CZ-LD5-30-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260630
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-LD5-30-UNV-L93050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2867.4 lumens
Efficiency: N/A
Efficacy: 140.2 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

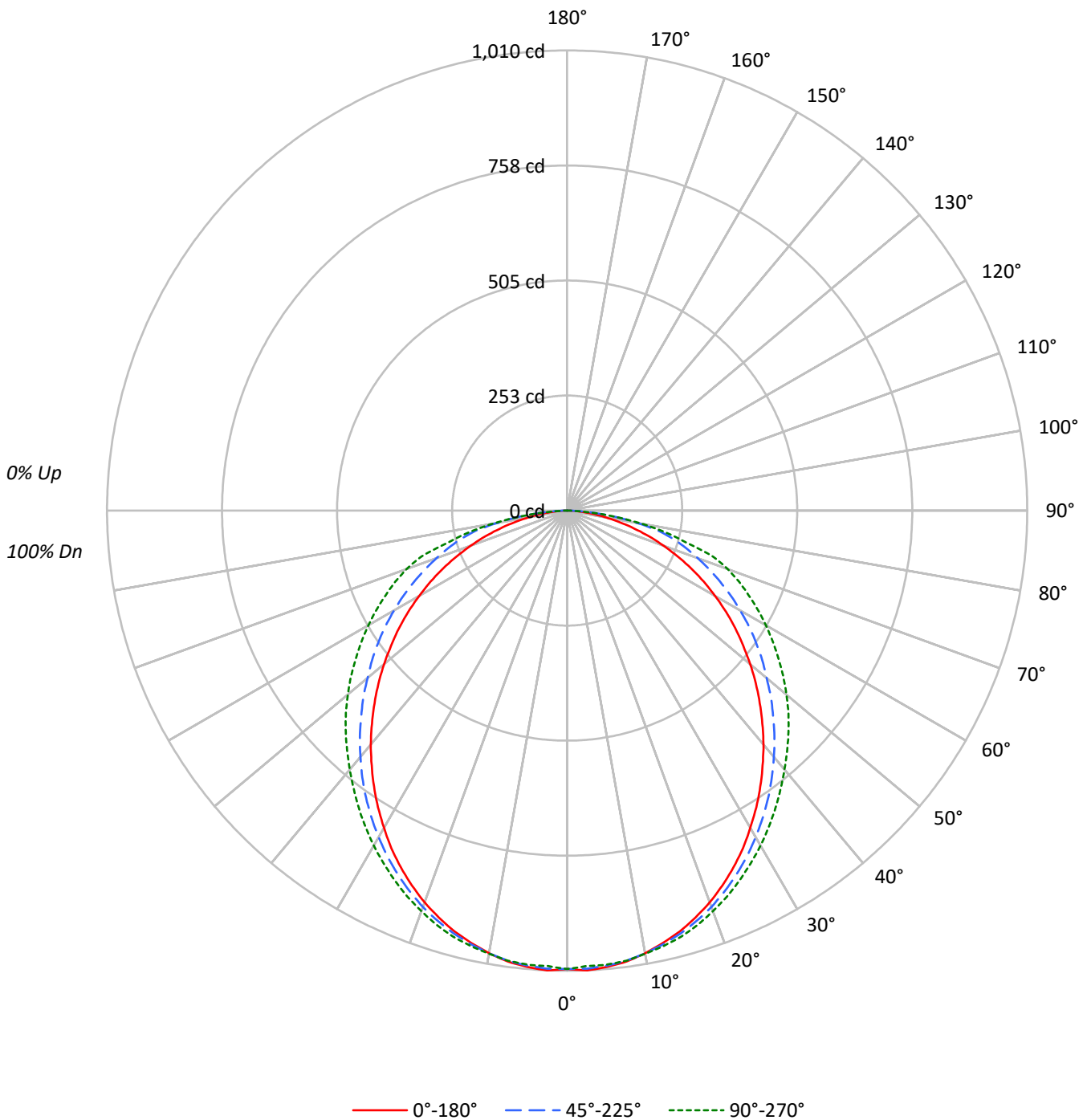
Input Watts (W): 20.447166
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1354	1354	1354
5°	1358	1354	1351
10°	1348	1348	1349
15°	1332	1339	1348
20°	1310	1326	1340
25°	1283	1307	1329
30°	1249	1286	1319
35°	1214	1264	1309
40°	1178	1240	1304
45°	1138	1216	1308
50°	1097	1196	1315
55°	1057	1188	1329
60°	1009	1181	1355
65°	956	1181	1400
70°	884	1201	1475
75°	791	1255	1404
80°	662	1202	1285
85°	500	925	878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	3.3
10°-20°	270.6	9.4
20°-30°	404.6	14.1
30°-40°	480.0	16.7
40°-50°	494.0	17.2
50°-60°	453.2	15.8
60°-70°	366.4	12.8
70°-80°	237.8	8.3
80°-90°	65.6	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°	770.3	26.9
0°-40°	1250.3	43.6
0°-60°	2197.6	76.6
0°-90°	2867.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2867.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1005	998	1002	1001	1000	95
15°	956	952	961	965	968	269
25°	864	865	881	888	895	398
35°	739	745	770	786	797	462
45°	598	608	639	670	687	461
55°	451	464	507	548	566	403
65°	300	318	371	420	440	297
75°	152	181	242	270	270	162
85°	32	55	60	58	57	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.3	1006.3	1006.3	1006.3	1006.3
2.5°	1010.2	1002.4	1006.3	1005.3	1000.4
5°	1005.3	998.4	1002.4	1001.4	1000.4
7.5°	998.4	991.6	996.5	995.5	996.5
10°	986.7	980.8	986.7	987.6	987.6
12.5°	971.9	967.0	974.9	976.8	978.8
15°	956.2	952.3	961.1	965.1	968.0
17.5°	936.6	933.7	944.5	949.4	953.3
20°	915.0	914.0	925.8	930.7	935.6
22.5°	890.5	890.5	904.2	910.1	917.0
25°	863.9	864.9	880.6	888.5	895.4
27.5°	835.5	836.5	855.1	864.9	872.8
30°	804.1	808.0	827.6	840.4	849.2
32.5°	772.6	777.6	799.2	813.9	823.7
35°	739.3	745.2	769.7	786.4	797.2
37.5°	704.9	711.8	738.3	756.9	769.7
40°	670.5	678.4	705.9	727.5	742.2
42.5°	634.2	643.1	673.5	699.0	714.7
45°	597.9	607.7	639.1	669.6	687.2
47.5°	561.6	573.3	606.7	640.1	658.8
50°	524.3	536.0	571.4	609.7	628.3
52.5°	487.0	500.7	540.0	579.2	597.9
55°	450.6	464.4	506.6	547.8	566.5
57.5°	413.3	427.1	473.2	516.4	535.1
60°	375.0	390.7	438.8	483.0	503.6
62.5°	337.7	354.4	405.5	452.6	472.2
65°	300.4	318.1	371.1	420.2	439.8
67.5°	262.1	282.7	337.7	387.8	408.4
70°	224.8	247.4	305.3	355.4	375.0
72.5°	188.5	213.0	272.9	324.0	335.8
75°	152.2	180.6	241.5	270.0	270.0
77.5°	117.8	149.2	206.2	217.0	222.9
80°	85.4	119.8	155.1	167.9	165.9
82.5°	56.9	91.3	110.9	110.9	108.0
85°	32.4	55.0	59.9	57.9	56.9
87.5°	13.7	20.6	18.7	14.7	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)