

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: P230522

Luminaire Tested: **24CZ-LD5-55SE-RDP-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55SE-RDP-UNV-L940-CD1-U
Description: CRUZE 2x4 LED TROFFER
WITH RDP LENS
Light Source: (84) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3219.4 lumens
Efficiency: N/A
Efficacy: 58.9 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

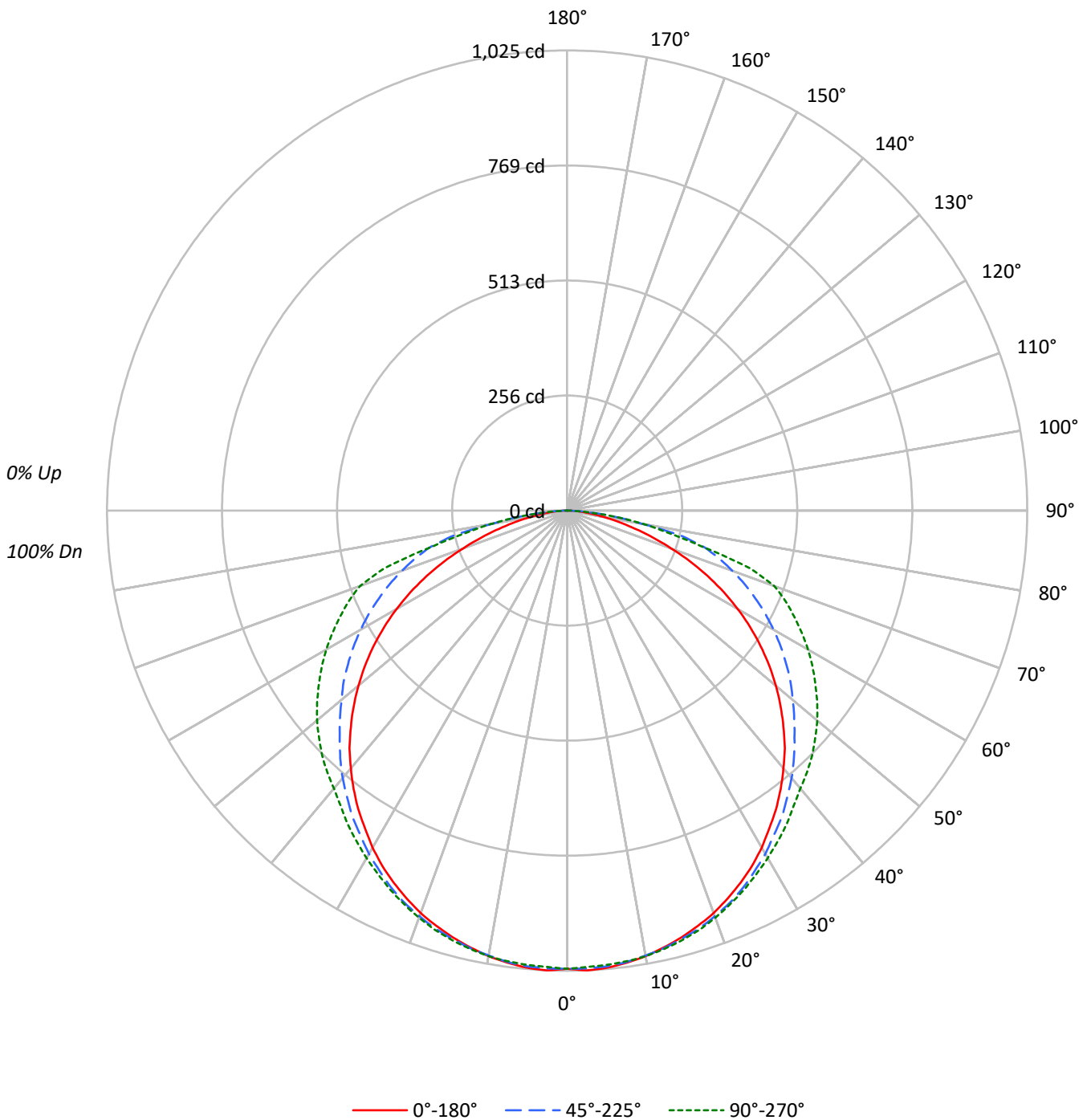
Input Watts (W): 54.69
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1373	1373	1373
5°	1381	1376	1372
10°	1377	1375	1377
15°	1371	1375	1380
20°	1366	1377	1382
25°	1358	1376	1383
30°	1347	1371	1389
35°	1333	1369	1400
40°	1317	1367	1420
45°	1297	1363	1469
50°	1271	1373	1523
55°	1234	1398	1584
60°	1181	1429	1667
65°	1100	1473	1776
70°	972	1540	1933
75°	816	1647	1623
80°	651	1302	1351
85°	514	881	807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	3.0
10°-20°	278.6	8.7
20°-30°	425.5	13.2
30°-40°	520.2	16.2
40°-50°	556.8	17.3
50°-60°	534.1	16.6
60°-70°	451.0	14.0
70°-80°	288.2	9.0
80°-90°	68.2	2.1
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°	800.9	24.9
0°-40°	1321.1	41.0
0°-60°	2412.1	74.9
0°-90°	3219.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3219.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1022	1016	1019	1017	1016	97
15°	984	981	987	990	990	278
25°	914	913	927	930	932	421
35°	811	818	834	845	853	507
45°	681	692	716	750	772	526
55°	526	544	596	650	675	470
65°	346	379	463	528	558	341
75°	157	223	317	323	312	169
85°	33	56	57	56	52	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.6	1020.6	1020.6	1020.6	1020.6
2.5°	1025.3	1019.0	1020.6	1020.6	1017.4
5°	1022.2	1015.8	1019.0	1017.4	1015.8
7.5°	1015.8	1011.1	1014.2	1014.2	1012.7
10°	1007.9	1003.1	1006.3	1007.9	1007.9
12.5°	996.8	993.6	998.4	998.4	1000.0
15°	984.1	981.0	987.3	990.5	990.5
17.5°	969.9	968.3	976.2	977.8	979.4
20°	954.0	952.4	961.9	961.9	965.1
22.5°	935.0	933.4	946.1	946.1	949.3
25°	914.4	912.8	927.1	930.2	931.8
27.5°	892.2	890.6	904.9	909.6	912.8
30°	866.9	866.9	882.7	889.0	893.8
32.5°	838.3	843.1	857.3	866.9	873.2
35°	811.4	817.7	833.6	844.7	852.6
37.5°	781.3	787.6	805.1	819.3	828.8
40°	749.6	757.5	778.1	794.0	808.2
42.5°	717.9	725.8	748.0	771.8	790.8
45°	681.4	692.5	716.3	749.6	771.8
47.5°	645.0	656.1	686.2	727.4	749.6
50°	607.0	619.6	656.1	703.6	727.4
52.5°	567.3	581.6	627.6	678.3	702.0
55°	526.1	543.6	595.9	649.7	675.1
57.5°	483.3	502.4	564.2	621.2	648.2
60°	439.0	462.7	530.9	591.1	619.6
62.5°	393.0	421.5	497.6	559.4	589.5
65°	345.5	378.8	462.7	527.7	557.8
67.5°	296.3	340.7	427.9	496.0	526.1
70°	247.2	299.5	391.4	461.2	491.3
72.5°	201.3	261.5	355.0	420.0	426.3
75°	156.9	223.4	316.9	323.3	312.2
77.5°	117.3	185.4	261.5	233.0	231.4
80°	84.0	149.0	168.0	172.7	174.3
82.5°	55.5	112.5	109.3	112.5	110.9
85°	33.3	55.5	57.1	55.5	52.3
87.5°	15.8	20.6	15.8	14.3	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)