

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: P#

Luminaire Tested: **24CZ-LD5-55SE-RDP-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
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-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3648.8 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

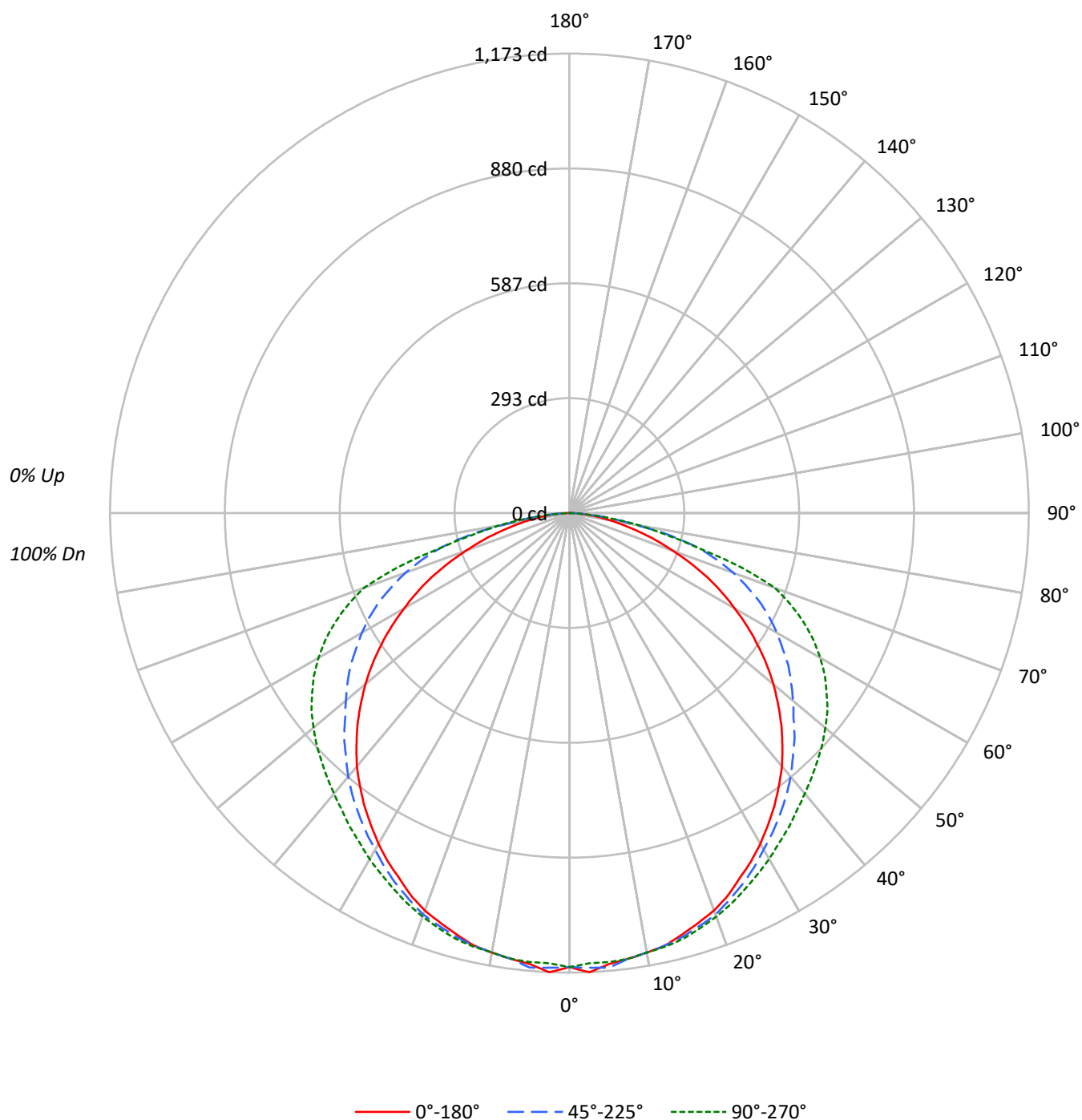
Input Watts (W): 54.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	105	101	97	93	97	93	90	93	90	87	89	87	85	83			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56			
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41			
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28			
9	55	41	33	27	54	41	33	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°	1559	1559	1559
5°	1558	1566	1547
10°	1549	1542	1543
15°	1541	1537	1546
20°	1532	1532	1542
25°	1509	1515	1538
30°	1493	1495	1540
35°	1473	1485	1551
40°	1453	1477	1576
45°	1420	1469	1623
50°	1382	1467	1685
55°	1329	1489	1756
60°	1257	1509	1832
65°	1173	1531	1898
70°	1033	1528	1931
75°	876	1463	1465
80°	711	996	1095
85°	544	545	501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	3.0
10°-20°	316.0	8.7
20°-30°	481.6	13.2
30°-40°	589.2	16.1
40°-50°	634.0	17.4
50°-60°	614.1	16.8
60°-70°	520.2	14.3
70°-80°	314.5	8.6
80°-90°	69.1	1.9
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°	907.6	24.9
0°-40°	1496.8	41.0
0°-60°	2745.0	75.2
0°-90°	3648.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3648.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1156	1156	1165	1159	1150	110
15°	1114	1116	1119	1122	1125	314
25°	1029	1034	1046	1054	1060	475
35°	912	918	938	963	978	571
45°	765	779	813	864	895	590
55°	587	612	683	762	802	524
65°	388	431	536	621	660	382
75°	184	249	337	343	334	198
85°	45	54	57	54	51	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.9	1158.9	1158.9	1158.9	1158.9
2.5°	1173.1	1170.3	1161.8	1156.1	1150.4
5°	1156.1	1156.1	1164.6	1158.9	1150.4
7.5°	1147.6	1147.6	1147.6	1161.8	1147.6
10°	1139.1	1141.9	1139.1	1150.4	1139.1
12.5°	1130.6	1130.6	1130.6	1133.4	1133.4
15°	1113.6	1116.4	1119.3	1122.1	1124.9
17.5°	1096.6	1099.4	1105.1	1107.9	1110.8
20°	1079.6	1082.4	1090.9	1090.9	1096.6
22.5°	1056.9	1056.9	1068.3	1071.1	1079.6
25°	1028.6	1034.3	1045.6	1054.1	1059.8
27.5°	1003.1	1008.8	1020.1	1031.4	1039.9
30°	974.8	980.4	991.8	1008.8	1020.1
32.5°	943.6	949.3	966.3	986.1	997.4
35°	912.4	918.1	937.9	963.4	977.6
37.5°	878.4	886.9	909.6	937.9	954.9
40°	844.4	852.9	878.4	909.6	935.1
42.5°	804.7	816.1	844.4	886.9	915.3
45°	765.1	779.2	813.2	864.3	895.4
47.5°	722.6	736.7	776.4	841.6	875.6
50°	680.1	697.1	745.2	816.1	852.9
52.5°	634.7	651.7	714.1	790.6	830.2
55°	586.6	612.1	682.9	762.2	801.9
57.5°	538.4	566.7	646.1	731.1	773.6
60°	487.4	521.4	612.1	697.1	739.6
62.5°	439.2	476.0	575.2	660.2	702.7
65°	388.2	430.7	535.6	620.6	660.2
67.5°	334.4	388.2	490.2	572.4	612.1
70°	280.5	342.9	444.9	521.4	558.2
72.5°	232.4	297.5	393.9	459.0	459.0
75°	184.2	249.4	337.2	342.9	334.4
77.5°	141.7	204.0	263.5	240.9	246.5
80°	104.8	155.8	167.2	175.7	181.4
82.5°	70.8	104.8	107.7	113.3	113.3
85°	45.3	53.8	56.7	53.8	51.0
87.5°	19.8	22.7	17.0	11.3	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)