

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1584415

Luminaire Tested: 14CZSP-60VHE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-776-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-60VHE-L835
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 6200 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

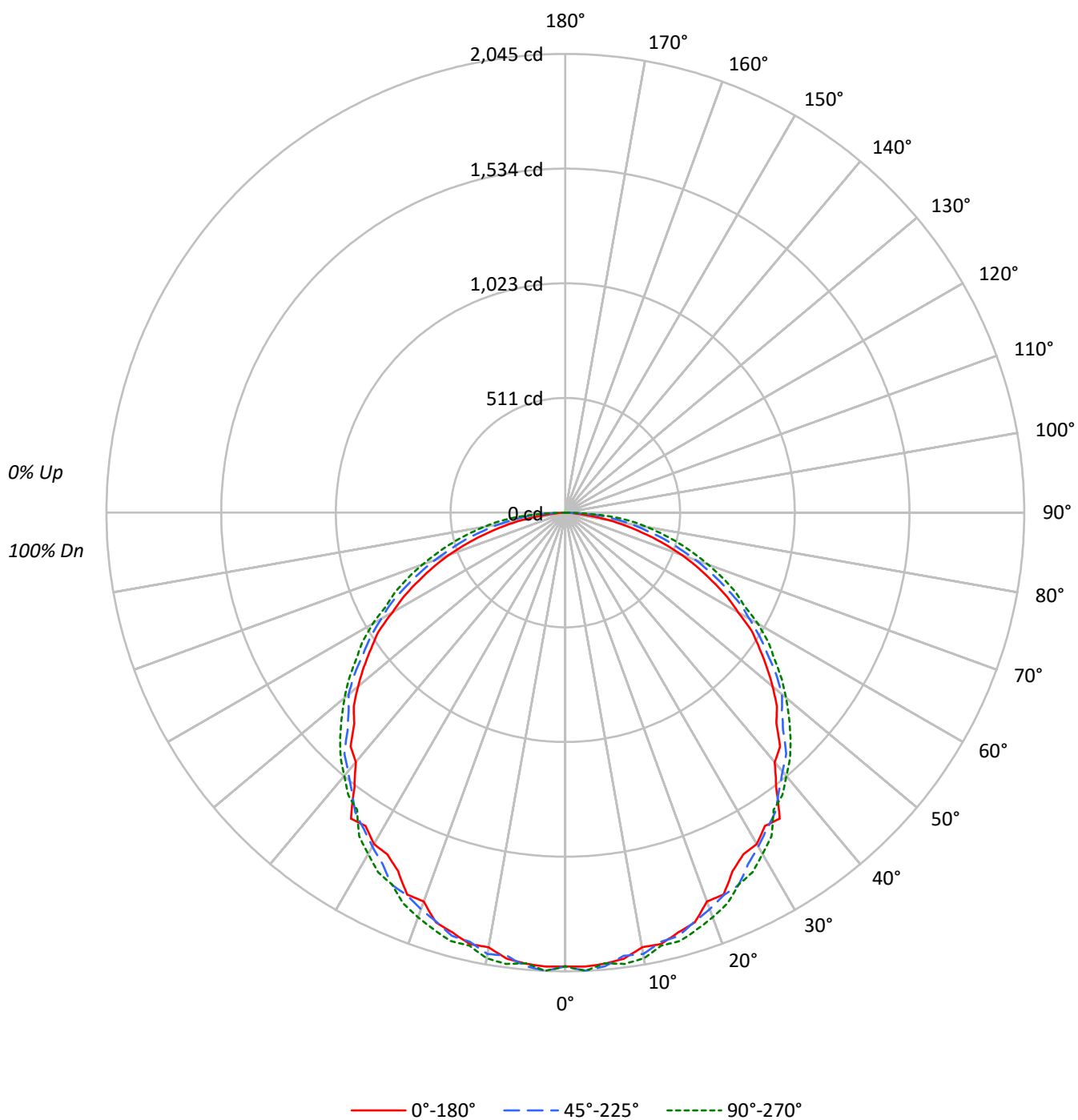
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6063.0 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 43.9
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: 24 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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61		71	65	60		68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	48
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6816	6816	6816
5°	6828	6866	6821
10°	6732	6835	6903
15°	6762	6813	6896
20°	6614	6745	6883
25°	6555	6803	6800
30°	6637	6690	6836
35°	6850	6709	6653
40°	6385	6624	6743
45°	6336	6540	6763
50°	6320	6605	6730
55°	6208	6459	6679
60°	5998	6384	6679
65°	5766	6273	6664
70°	5452	6098	6674
75°	4816	5956	6797
80°	3964	5804	7199
85°	2215	6124	8018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 8018 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	3.2
10°-20°	550.3	9.1
20°-30°	836.3	13.8
30°-40°	1017.0	16.8
40°-50°	1067.5	17.6
50°-60°	987.3	16.3
60°-70°	777.8	12.8
70°-80°	478.1	7.9
80°-90°	157.0	2.6
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°	1578.3	26.0
0°-40°	2595.3	42.8
0°-60°	4650.1	76.7
0°-90°	6063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2023	2023	2023	2023	2023	
5°	2019	1983	2030	2012	2016	191
15°	1938	1933	1953	1979	1977	546
25°	1763	1796	1830	1825	1829	819
35°	1665	1606	1631	1656	1617	1009
45°	1330	1358	1372	1412	1419	1034
55°	1057	1090	1099	1128	1137	945
65°	723	751	787	821	836	716
75°	370	411	458	504	522	394
85°	57	100	158	194	207	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2022.7	2022.7	2022.7	2022.7	2022.7
2.5°	2025.8	2029.0	2043.6	2011.3	2044.6
5°	2018.6	1983.1	2030.0	2012.3	2016.5
7.5°	2005.0	2009.2	1992.5	2002.9	2029.0
10°	1967.5	1993.5	1997.7	2001.9	2017.5
12.5°	1969.6	1952.9	1960.2	1990.4	1976.9
15°	1938.3	1933.1	1952.9	1979.0	1976.9
17.5°	1916.4	1905.0	1912.3	1924.8	1948.7
20°	1844.5	1874.7	1881.0	1919.6	1919.6
22.5°	1842.4	1841.4	1845.6	1865.4	1886.2
25°	1763.2	1795.5	1829.9	1824.7	1828.9
27.5°	1717.4	1753.9	1765.3	1800.8	1807.0
30°	1705.9	1712.2	1719.5	1758.0	1757.0
32.5°	1655.9	1666.3	1671.5	1693.4	1710.1
35°	1665.3	1605.9	1630.9	1655.9	1617.3
37.5°	1543.4	1552.7	1563.2	1581.9	1588.2
40°	1451.6	1475.6	1505.8	1527.7	1532.9
42.5°	1416.2	1451.6	1456.9	1476.7	1481.9
45°	1329.7	1357.9	1372.4	1412.0	1419.3
47.5°	1278.7	1282.8	1308.9	1346.4	1351.6
50°	1205.7	1233.8	1259.9	1276.6	1283.9
52.5°	1131.7	1163.0	1183.8	1199.5	1214.0
55°	1056.7	1090.0	1099.4	1127.6	1136.9
57.5°	986.9	997.3	1027.5	1054.6	1071.3
60°	890.0	925.4	947.3	997.3	991.0
62.5°	811.8	835.8	876.4	901.4	898.3
65°	723.2	751.4	786.8	821.2	835.8
67.5°	638.8	676.3	702.4	747.2	757.6
70°	553.4	571.1	619.0	662.8	677.4
72.5°	461.7	489.8	531.5	579.4	597.1
75°	369.9	410.6	457.5	504.4	522.1
77.5°	283.5	318.9	372.0	426.2	443.9
80°	204.3	236.6	299.1	349.1	371.0
82.5°	119.8	163.6	225.1	280.3	297.0
85°	57.3	100.0	158.4	193.8	207.4
87.5°	15.6	44.8	69.8	90.7	93.8
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.47	20.14	18.84	20.46	20.77	18.90	20.57	19.27	20.89	21.20
	3H	20.28	21.80	20.66	22.12	22.48	20.99	22.50	21.37	22.83	23.19
	4H	20.92	22.35	21.32	22.70	23.07	21.87	23.30	22.27	23.65	24.02
	6H	21.33	22.66	21.74	23.03	23.42	22.66	23.98	23.07	24.35	24.74
	8H	21.43	22.70	21.86	23.09	23.49	22.99	24.26	23.42	24.65	25.05
	12H	21.47	22.69	21.90	23.07	23.50	23.28	24.50	23.71	24.88	25.31
4H	2H	19.20	20.63	19.60	20.98	21.36	19.54	20.97	19.94	21.32	21.69
	3H	21.23	22.44	21.64	22.83	23.23	21.85	23.06	22.26	23.46	23.85
	4H	22.01	23.10	22.44	23.51	23.95	22.89	23.99	23.32	24.40	24.83
	6H	22.55	23.51	23.00	23.95	24.40	23.84	24.80	24.30	25.24	25.70
	8H	22.69	23.59	23.15	24.03	24.49	24.26	25.16	24.72	25.60	26.07
	12H	22.76	23.57	23.24	24.04	24.51	24.63	25.44	25.11	25.91	26.38
8H	4H	22.44	23.34	22.90	23.78	24.25	23.21	24.11	23.67	24.55	25.02
	6H	23.12	23.87	23.61	24.36	24.83	24.33	25.08	24.82	25.57	26.04
	8H	23.33	24.01	23.84	24.51	25.00	24.87	25.54	25.38	26.05	26.53
	12H	23.47	24.07	23.98	24.56	25.12	25.37	25.97	25.88	26.46	27.02
12H	4H	22.52	23.33	23.00	23.81	24.28	23.25	24.06	23.72	24.53	25.00
	6H	23.25	23.93	23.76	24.43	24.92	24.39	25.07	24.90	25.57	26.06
	8H	23.54	24.14	24.04	24.63	25.18	25.01	25.60	25.51	26.09	26.65