

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: NEO-RAY

Report Number: P1011291

Luminaire Tested: S123DIP-B1165D1195UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011291
REPORT IS A COMBINATION OF REPORTS P989387 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1195UB27-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

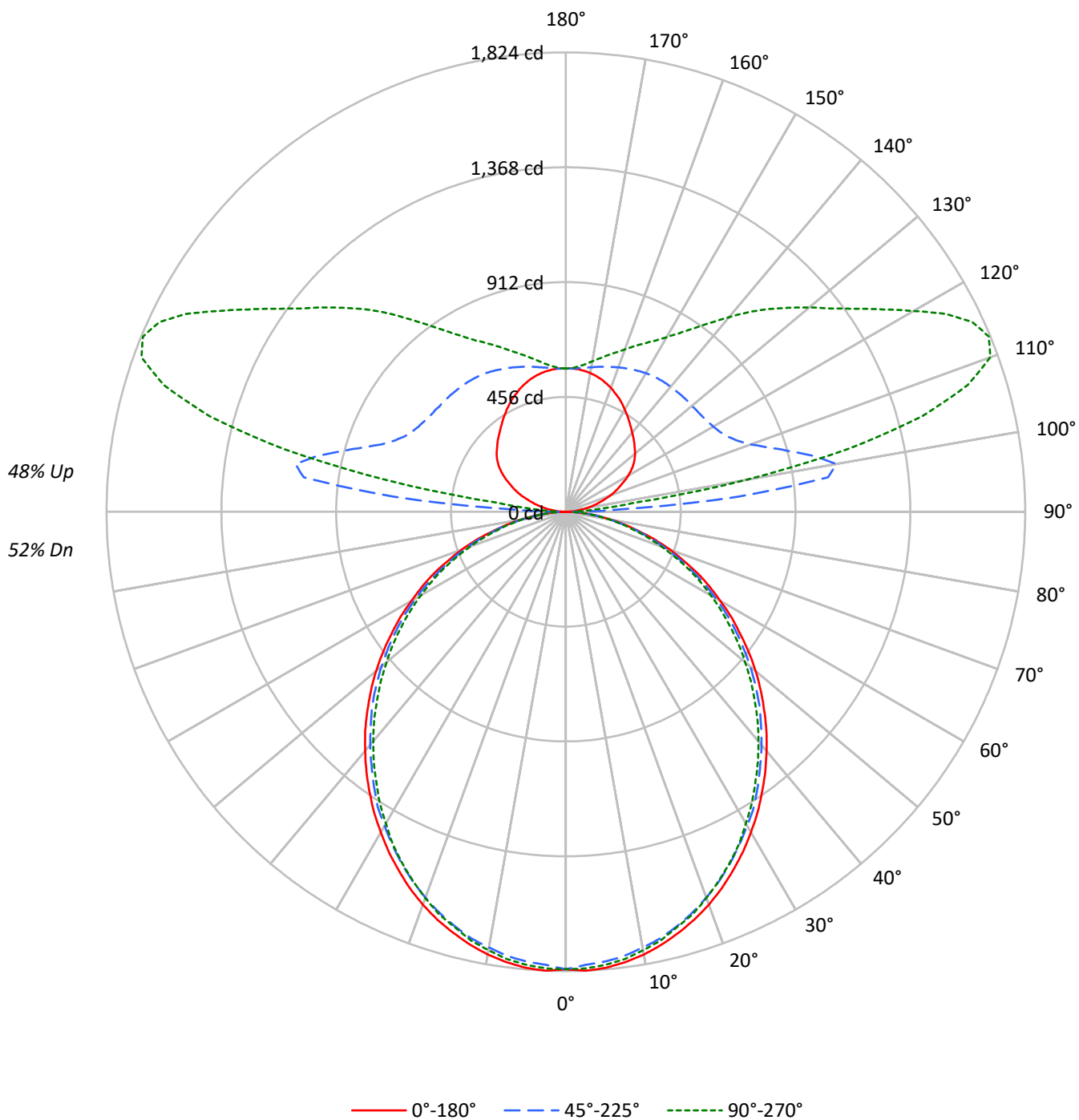
Lumens per Lamp: N/A
Luminaire Lumens: 9018.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
Input Voltage (V):
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58
1	98	94	90	86	91	87	84	81	74	72	69	62	61	59	52	50	49
2	89	82	76	71	83	76	71	66	65	61	57	55	52	49	45	43	41
3	82	72	65	59	75	67	60	55	57	52	48	48	45	42	40	37	35
4	75	64	56	50	69	59	52	47	51	45	41	43	39	36	36	33	30
5	69	57	49	43	63	53	46	40	46	40	35	39	34	31	32	29	26
6	63	51	43	37	58	48	40	35	41	35	31	35	30	27	29	26	23
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	18
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19550	19550	19550
5°	19600	18876	18848
10°	19425	18237	18050
15°	19155	17572	17181
20°	18845	16834	16318
25°	18444	16057	15398
30°	18006	15251	14429
35°	17547	14428	13467
40°	17066	13565	12519
45°	16537	12723	11530
50°	15999	11785	10537
55°	15309	10807	9531
60°	14599	9730	8461
65°	13931	8563	7344
70°	12969	7269	6041
75°	11583	5755	4690
80°	10006	4046	3317
85°	7800	2175	1662

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16537 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	1.9
10°-20°	483.5	5.4
20°-30°	714.1	7.9
30°-40°	834.0	9.2
40°-50°	838.4	9.3
50°-60°	736.5	8.2
60°-70°	548.5	6.1
70°-80°	312.1	3.5
80°-90°	91.9	1.0
90°-100°	323.2	3.6
100°-110°	903.3	10.0
110°-120°	880.8	9.8
120°-130°	701.4	7.8
130°-140°	553.6	6.1
140°-150°	413.0	4.6
150°-160°	288.1	3.2
160°-170°	169.3	1.9
170°-180°	55.1	0.6
0°-30°	1368.8	15.2
0°-40°	2202.7	24.4
0°-60°	3777.6	41.9
0°-90°	4730.2	52.5
90°-120°	2107.3	23.4
90°-150°	3775.3	41.9
90°-180°	4288.0	47.5
0°-180°	9018.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1818	1810	1793	1808	1805	172
15°	1730	1724	1704	1716	1707	488
25°	1571	1562	1541	1543	1538	724
35°	1359	1349	1329	1320	1312	850
45°	1114	1107	1087	1068	1060	860
55°	845	843	823	806	798	757
65°	576	568	553	540	536	569
75°	304	298	294	286	281	325
85°	81	78	78	75	75	87
90°	2	14	29	32	33	9
95°	39	127	683	199	134	41
105°	134	197	926	1619	1464	142
115°	236	294	708	1552	1781	234
125°	328	387	661	1197	1404	291
135°	384	459	652	986	1139	297
145°	439	502	644	809	890	275
155°	498	538	623	708	738	229
165°	544	560	596	633	644	153
175°	568	568	572	580	579	54
180°	569	569	569	569	569	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1816.3	1816.3	1816.3	1816.3	1816.3
2.5°	1824.1	1817.9	1800.7	1816.3	1814.7
5°	1817.9	1810.0	1792.9	1808.5	1805.4
7.5°	1803.8	1796.0	1778.8	1792.9	1791.3
10°	1785.1	1777.2	1756.9	1771.0	1767.9
12.5°	1760.1	1753.8	1735.1	1744.5	1742.9
15°	1730.4	1724.1	1703.8	1716.3	1707.0
17.5°	1697.6	1689.8	1669.5	1678.9	1675.7
20°	1660.1	1650.7	1630.4	1636.7	1632.0
22.5°	1618.0	1608.6	1588.3	1593.0	1586.7
25°	1571.1	1561.7	1541.4	1543.0	1538.3
27.5°	1522.7	1513.3	1491.5	1493.0	1488.3
30°	1469.6	1461.8	1439.9	1439.9	1429.0
32.5°	1416.5	1405.6	1389.9	1379.0	1374.3
35°	1358.7	1349.3	1329.0	1319.7	1311.9
37.5°	1300.9	1288.4	1268.1	1257.2	1252.5
40°	1240.0	1230.6	1208.8	1196.3	1190.0
42.5°	1179.1	1168.2	1146.3	1133.8	1127.6
45°	1113.5	1107.3	1087.0	1068.2	1060.4
47.5°	1049.5	1040.1	1021.4	1002.6	996.4
50°	983.9	976.1	955.8	938.6	929.2
52.5°	915.2	910.5	888.6	874.6	865.2
55°	844.9	843.3	823.0	805.9	798.0
57.5°	779.3	773.1	757.4	741.8	732.5
60°	707.5	705.9	687.2	673.1	665.3
62.5°	643.4	638.7	620.0	606.0	601.3
65°	576.3	568.5	552.9	540.4	535.7
67.5°	504.4	498.2	485.7	474.8	468.5
70°	440.4	431.0	421.7	410.7	402.9
72.5°	373.3	367.0	356.1	346.7	343.6
75°	304.5	298.3	293.6	285.8	281.1
77.5°	243.6	240.5	234.3	228.0	228.0
80°	184.3	179.6	176.5	174.9	174.9
82.5°	126.5	126.5	126.5	123.4	121.8
85°	81.2	78.1	78.1	75.0	75.0
87.5°	40.6	35.9	34.4	32.8	32.8
90°	2.3	13.8	28.8	32.2	33.4
92.5°	17.3	69.1	214.1	73.1	61.0
95°	39.1	127.2	682.7	199.2	133.5
97.5°	62.2	145.6	1049.9	500.8	274.0
100°	85.2	160.6	1090.2	1047.6	721.8
102.5°	109.4	177.8	1015.4	1402.8	1143.2
105°	133.5	197.4	925.6	1618.6	1464.4
107.5°	158.9	220.5	846.1	1713.6	1673.9
110°	186.5	244.0	780.5	1716.5	1793.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.8	268.8	736.8	1651.4	1817.8
115°	236.0	294.2	708.0	1552.4	1780.9
117.5°	260.2	318.3	688.4	1446.6	1700.4
120°	285.5	342.5	675.8	1346.4	1594.4
122.5°	307.4	365.6	667.7	1267.5	1495.4
125°	328.1	387.4	660.8	1197.2	1404.5
127.5°	344.2	408.2	657.3	1139.7	1326.2
130°	359.2	426.6	653.9	1086.8	1261.7
132.5°	370.7	443.2	652.7	1037.2	1198.4
135°	384.5	458.8	651.6	986.0	1138.6
137.5°	397.2	471.4	649.3	937.6	1075.2
140°	409.8	482.9	648.1	890.4	1008.5
142.5°	423.7	493.3	645.8	847.3	946.3
145°	438.6	502.5	643.5	808.7	889.9
147.5°	453.6	512.3	640.1	778.8	841.5
150°	468.5	520.4	635.5	752.3	800.1
152.5°	483.5	529.0	629.7	729.3	765.6
155°	498.5	537.7	622.8	708.0	737.9
157.5°	510.0	545.1	617.1	687.2	711.5
160°	523.8	551.4	610.1	668.3	686.1
162.5°	534.2	556.0	603.2	650.4	663.1
165°	544.5	560.0	596.3	632.6	643.5
167.5°	552.6	563.5	589.4	617.1	624.0
170°	559.5	565.2	582.5	603.2	606.7
172.5°	564.1	567.0	576.8	591.2	590.6
175°	567.6	568.2	572.2	580.2	579.1
177.5°	569.9	568.7	568.7	573.3	571.0
180°	568.7	568.7	568.7	568.7	568.7

(END OF REPORT)