

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: P1027611

Luminaire Tested: S125DIP-B1270D1270UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027611
REPORT IS A COMBINATION OF REPORTS P1001634 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1270UB50-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

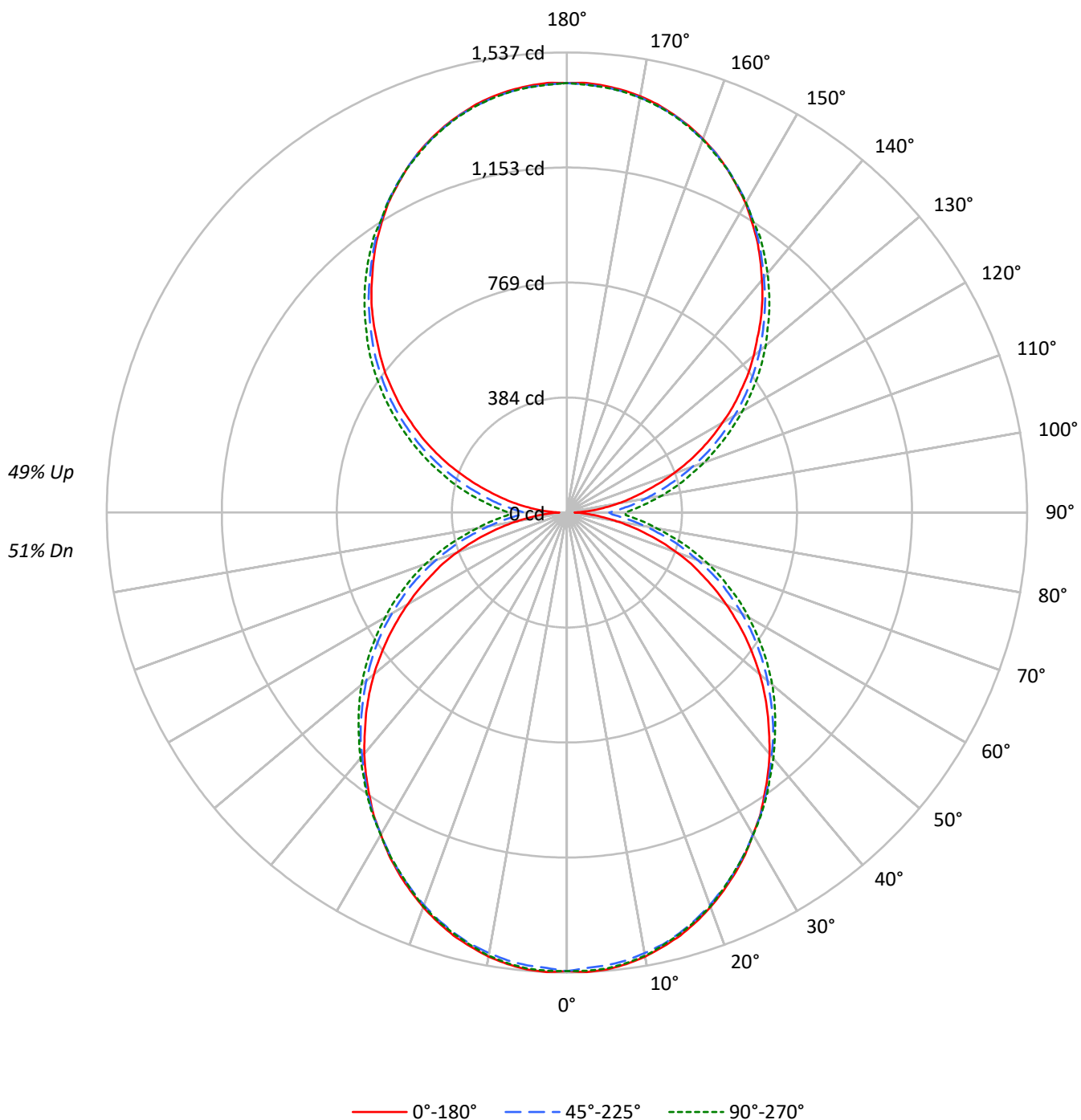
Lumens per Lamp: N/A
Luminaire Lumens: 8754.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	97	93	88	85	90	86	82	79	72	70	67	60	58	57	49	48	47
2	88	80	74	69	81	74	69	64	63	59	55	53	49	47	43	41	39
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	38	35	33
4	73	62	54	48	67	58	50	45	49	43	39	41	37	33	34	30	28
5	67	55	47	41	62	51	44	38	44	38	33	37	32	29	30	27	24
6	62	50	41	35	57	46	39	33	39	33	29	33	29	25	27	24	21
7	57	45	37	31	53	42	34	29	36	30	26	30	26	22	25	21	19
8	53	41	33	27	49	38	31	26	32	27	23	28	23	20	23	19	17
9	49	37	29	24	46	34	28	23	30	24	20	25	21	18	21	18	15
10	46	34	27	22	43	32	25	21	27	22	18	23	19	16	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9818	9818	9818
5°	9834	9612	9636
10°	9760	9416	9389
15°	9642	9188	9086
20°	9481	8913	8786
25°	9291	8619	8421
30°	9061	8300	8091
35°	8846	8005	7785
40°	8627	7695	7478
45°	8380	7426	7201
50°	8143	7133	6952
55°	7858	6855	6662
60°	7546	6537	6365
65°	7220	6203	6031
70°	6847	5755	5683
75°	6258	5313	5258
80°	5487	4774	4788
85°	4723	4345	4541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8380 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	1.7
10°-20°	411.6	4.7
20°-30°	612.1	7.0
30°-40°	724.9	8.3
40°-50°	749.5	8.6
50°-60°	690.4	7.9
60°-70°	558.1	6.4
70°-80°	373.4	4.3
80°-90°	195.3	2.2
90°-100°	204.1	2.3
100°-110°	363.6	4.2
110°-120°	534.4	6.1
120°-130°	663.3	7.6
130°-140°	722.5	8.3
140°-150°	697.8	8.0
150°-160°	583.9	6.7
160°-170°	388.1	4.4
170°-180°	135.8	1.6
0°-30°	1168.8	13.4
0°-40°	1893.7	21.6
0°-60°	3333.6	38.1
0°-90°	4460.4	51.0
90°-120°	1102.2	12.6
90°-150°	3185.7	36.4
90°-180°	4294.0	49.1
0°-180°	8754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1532	1529	1519	1531	1529	145
15°	1463	1465	1454	1463	1457	412
25°	1330	1334	1325	1331	1324	612
35°	1151	1161	1157	1161	1161	720
45°	948	964	972	982	984	731
55°	729	753	777	793	799	651
65°	502	536	572	595	601	498
75°	276	316	364	394	401	293
85°	83	132	185	218	230	86
90°	25	82	141	181	195	22
95°	92	133	196	236	249	91
105°	268	298	350	386	400	286
115°	490	505	547	572	580	485
125°	708	714	745	767	773	634
135°	916	922	933	953	956	706
145°	1108	1111	1114	1122	1125	692
155°	1266	1266	1267	1272	1266	583
165°	1377	1375	1376	1380	1374	388
175°	1432	1427	1427	1434	1426	136
180°	1435	1435	1435	1435	1435	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.4	1532.4	1532.4	1532.4	1532.4
2.5°	1536.9	1533.9	1523.4	1533.9	1532.4
5°	1532.4	1529.4	1518.8	1530.9	1529.4
7.5°	1521.8	1520.3	1509.8	1520.3	1518.8
10°	1506.8	1506.8	1494.8	1505.3	1503.8
12.5°	1485.8	1487.3	1478.3	1485.8	1481.3
15°	1463.3	1464.8	1454.2	1463.3	1457.2
17.5°	1434.7	1437.7	1427.2	1434.7	1430.2
20°	1403.2	1406.2	1395.7	1400.2	1400.2
22.5°	1367.1	1373.1	1361.1	1367.1	1362.6
25°	1329.6	1334.1	1325.0	1331.1	1323.5
27.5°	1289.0	1295.0	1284.5	1289.0	1286.0
30°	1242.4	1251.4	1242.4	1245.4	1243.9
32.5°	1200.4	1207.9	1201.9	1204.9	1203.4
35°	1150.8	1161.3	1156.8	1161.3	1161.3
37.5°	1102.7	1111.7	1110.2	1116.2	1114.7
40°	1053.1	1065.1	1063.6	1069.7	1072.7
42.5°	999.0	1015.6	1020.1	1027.6	1027.6
45°	948.0	964.5	972.0	982.5	984.0
47.5°	895.4	910.4	922.4	937.4	940.5
50°	841.3	857.8	874.3	890.9	895.4
52.5°	784.2	805.2	826.3	844.3	847.3
55°	728.6	752.7	776.7	793.2	799.2
57.5°	671.5	700.1	727.1	745.2	749.7
60°	614.4	644.5	674.5	697.1	701.6
62.5°	558.9	588.9	622.0	647.5	653.5
65°	501.8	536.3	572.4	594.9	600.9
67.5°	449.2	482.2	518.3	545.3	552.9
70°	390.6	425.2	464.2	492.8	501.8
72.5°	333.5	369.6	413.1	444.7	450.7
75°	276.4	315.5	363.6	393.6	401.1
77.5°	220.8	265.9	311.0	344.0	350.0
80°	169.8	214.8	265.9	299.0	305.0
82.5°	123.2	171.3	223.8	255.4	267.4
85°	82.6	132.2	184.8	217.8	229.9
87.5°	52.6	100.7	151.7	186.3	196.8
90°	25.1	82.2	141.1	181.2	195.1
92.5°	54.5	103.7	166.3	207.2	219.9
95°	92.1	133.4	195.7	236.5	249.2
97.5°	129.7	166.9	232.1	270.3	281.9
100°	172.8	204.4	267.0	308.6	319.8
102.5°	219.4	253.5	305.6	346.9	359.2
105°	268.1	297.8	349.5	386.3	400.1
107.5°	321.3	348.0	397.1	430.5	439.5
110°	376.8	400.4	445.8	477.8	487.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	434.8	450.6	495.6	523.8	532.1
115°	490.3	505.3	546.6	572.5	580.4
117.5°	546.9	555.5	595.3	621.9	628.0
120°	600.5	610.5	646.3	671.8	676.3
122.5°	657.0	659.6	696.1	719.0	724.6
125°	708.4	713.6	744.8	766.6	773.0
127.5°	763.8	765.7	792.3	813.8	820.6
130°	814.1	818.2	841.4	861.4	866.7
132.5°	862.8	872.9	886.8	906.8	909.4
135°	916.4	921.6	933.3	952.8	955.9
137.5°	966.7	971.9	980.1	999.2	999.7
140°	1013.2	1018.8	1023.6	1042.4	1042.8
142.5°	1061.2	1064.2	1068.7	1083.3	1083.7
145°	1108.1	1111.1	1114.4	1121.9	1124.6
147.5°	1150.2	1153.5	1155.8	1162.1	1156.2
150°	1193.7	1192.6	1197.1	1197.1	1196.3
152.5°	1229.5	1231.7	1232.8	1236.2	1231.7
155°	1266.3	1266.3	1267.4	1271.9	1266.3
157.5°	1299.8	1297.6	1298.7	1303.2	1295.3
160°	1328.8	1325.5	1326.6	1331.1	1325.5
162.5°	1354.5	1352.3	1352.3	1357.9	1351.2
165°	1376.9	1374.6	1375.7	1380.2	1373.5
167.5°	1397.0	1392.5	1392.5	1399.2	1392.5
170°	1412.6	1408.1	1408.1	1414.8	1407.0
172.5°	1423.8	1419.3	1419.3	1426.0	1419.3
175°	1431.6	1427.1	1427.1	1433.8	1426.0
177.5°	1437.2	1432.7	1431.6	1438.3	1430.5
180°	1434.9	1434.9	1434.9	1434.9	1434.9

(END OF REPORT)