

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: P1027566

Luminaire Tested: S125DIP-B1270D1090UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027566
REPORT IS A COMBINATION OF REPORTS P1001574 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1090UB50-4F0-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

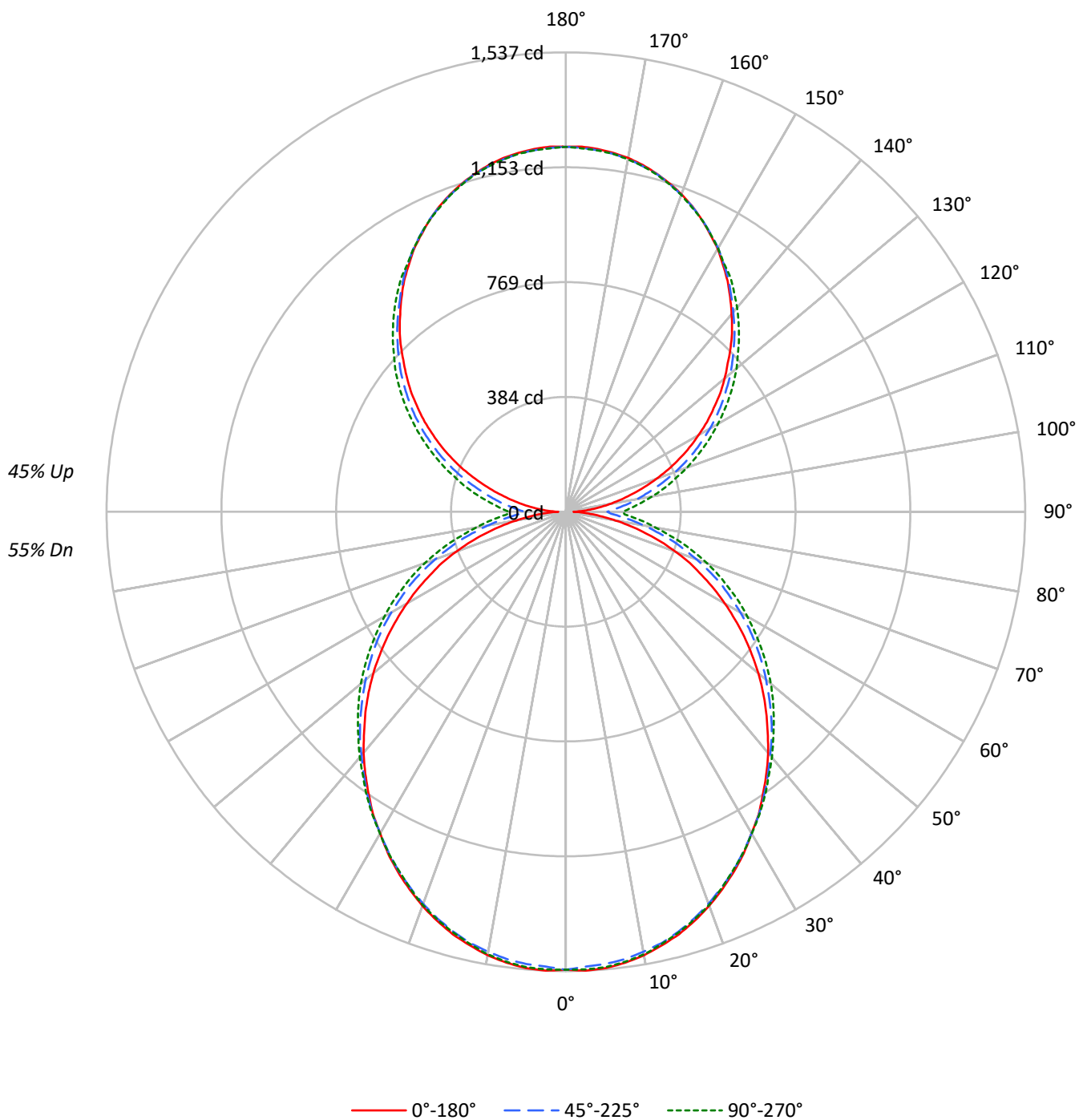
Lumens per Lamp: N/A
Luminaire Lumens: 8157.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
Input Voltage (V):
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: 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	86	86	86	73	73	73	60	60	60
1	98	93	89	85	91	87	83	80	74	71	69	63	61	59	52	51	49
2	89	81	75	69	82	75	70	65	65	60	56	55	51	49	45	43	41
3	81	71	63	57	75	66	59	54	57	51	47	48	44	41	40	37	35
4	74	63	54	48	68	58	51	45	50	44	40	43	38	35	36	32	30
5	68	56	47	41	63	52	44	39	45	39	34	38	34	30	32	28	26
6	62	50	42	36	58	47	39	34	40	34	30	34	30	26	29	25	22
7	58	45	37	31	53	42	35	29	37	31	26	31	27	23	26	23	20
8	54	41	33	27	50	38	31	26	33	27	23	29	24	21	24	21	18
9	50	37	30	24	46	35	28	23	31	25	21	26	22	18	22	19	16
10	47	34	27	22	43	32	25	21	28	23	19	24	20	17	21	17	15

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	1.8
10°-20°	411.6	5.0
20°-30°	612.1	7.5
30°-40°	724.9	8.9
40°-50°	749.5	9.2
50°-60°	690.4	8.5
60°-70°	558.1	6.8
70°-80°	373.4	4.6
80°-90°	194.9	2.4
90°-100°	189.9	2.3
100°-110°	321.4	3.9
110°-120°	462.8	5.7
120°-130°	569.0	7.0
130°-140°	616.8	7.6
140°-150°	594.2	7.3
150°-160°	496.9	6.1
160°-170°	330.3	4.0
170°-180°	115.6	1.4
0°-30°	1168.8	14.3
0°-40°	1893.7	23.2
0°-60°	3333.6	40.9
0°-90°	4460.1	54.7
90°-120°	974.1	11.9
90°-150°	2754.1	33.8
90°-180°	3697.0	45.3
0°-180°	8157.0	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	81	138	178	191	21
95°	81	122	183	222	235	80
105°	230	259	310	346	359	245
115°	419	433	474	500	508	414
125°	604	608	639	661	668	541
135°	780	784	796	816	819	601
145°	943	946	948	956	959	589
155°	1078	1078	1079	1082	1078	496
165°	1172	1170	1171	1175	1169	331
175°	1218	1214	1214	1220	1214	116
180°	1221	1221	1221	1221	1221	

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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°	25.0	80.7	138.4	177.7	191.1
92.5°	49.5	97.9	159.0	198.7	211.1
95°	81.3	122.3	182.9	222.5	234.9
97.5°	113.0	150.1	213.0	250.2	261.6
100°	149.5	181.1	241.5	281.6	292.5
102.5°	188.9	222.3	273.5	313.1	325.0
105°	230.2	259.0	309.7	345.5	358.9
107.5°	275.2	301.1	349.3	382.3	391.3
110°	322.2	345.0	389.9	421.4	430.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	371.6	387.0	431.4	459.4	468.1
115°	418.6	432.9	473.9	499.9	508.0
117.5°	466.5	474.9	514.4	540.9	547.6
120°	512.1	521.4	556.9	582.4	587.6
122.5°	560.0	562.5	598.4	621.5	627.6
125°	603.7	607.9	639.0	661.1	667.6
127.5°	650.7	652.1	678.5	700.2	707.3
130°	693.5	696.7	719.6	739.8	745.4
132.5°	734.7	743.3	757.3	777.5	780.6
135°	780.3	784.5	796.0	815.5	819.3
137.5°	823.1	827.3	835.2	854.2	855.4
140°	862.5	867.2	871.6	890.0	891.2
142.5°	903.3	905.6	909.4	923.9	925.1
145°	943.2	945.6	948.4	955.9	959.1
147.5°	978.8	981.7	983.6	989.4	984.8
150°	1015.9	1014.9	1018.7	1018.7	1018.3
152.5°	1046.3	1048.2	1049.1	1052.0	1048.2
155°	1077.6	1077.6	1078.6	1082.4	1077.6
157.5°	1106.2	1104.3	1105.2	1109.0	1102.4
160°	1130.9	1128.0	1129.0	1132.8	1128.0
162.5°	1152.7	1150.8	1150.8	1155.6	1149.9
165°	1171.7	1169.8	1170.8	1174.6	1168.9
167.5°	1188.8	1185.0	1185.0	1190.7	1185.0
170°	1202.1	1198.3	1198.3	1204.0	1197.4
172.5°	1211.6	1207.8	1207.8	1213.5	1207.8
175°	1218.3	1214.5	1214.5	1220.2	1213.5
177.5°	1223.0	1219.2	1218.3	1224.0	1217.3
180°	1221.1	1221.1	1221.1	1221.1	1221.1

(END OF REPORT)