

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: P1027567

Luminaire Tested: S125DIP-B1270D1090UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027567
REPORT IS A COMBINATION OF REPORTS P1001575 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-D4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

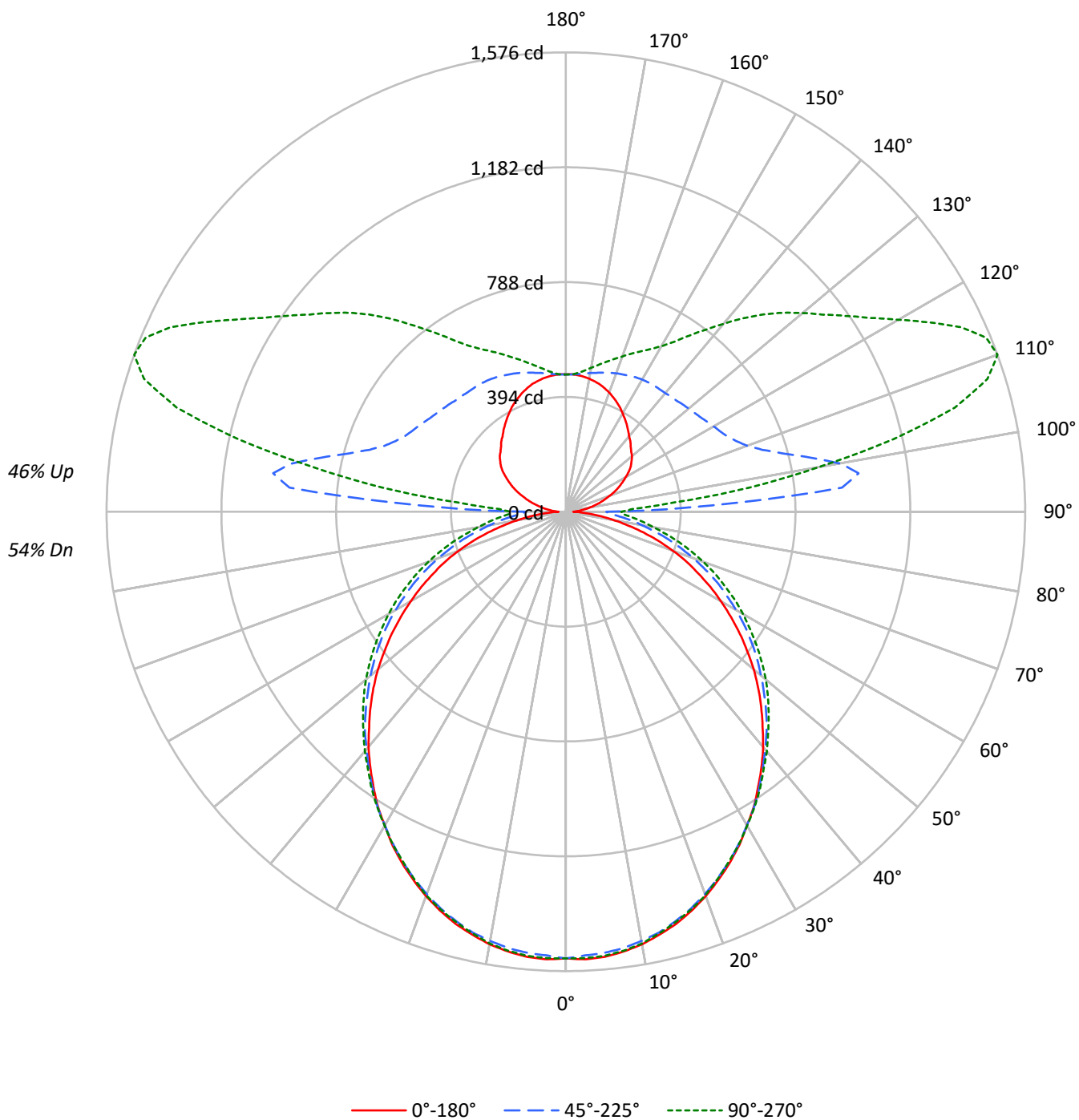
Lumens per Lamp: N/A
Luminaire Lumens: 8296.2 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
Input Voltage (V):
Input Current (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	72	72	72	60	60	60
1	98	93	89	85	90	86	83	79	74	71	69	62	60	58	51	50	49
2	89	81	74	69	82	75	69	65	64	60	56	54	51	48	45	42	40
3	81	71	63	57	74	66	59	54	56	51	47	48	44	40	39	37	34
4	74	63	54	48	68	58	51	45	50	44	40	42	38	34	35	32	29
5	68	56	47	41	62	52	44	39	45	39	34	38	33	30	32	28	25
6	62	50	41	35	57	46	39	34	40	34	30	34	29	26	29	25	22
7	58	45	37	31	53	42	35	29	36	30	26	31	26	23	26	22	20
8	53	41	33	27	49	38	31	26	33	27	23	28	24	20	24	20	18
9	50	37	30	24	46	35	28	23	30	25	21	26	22	18	22	18	16
10	46	34	27	22	43	32	25	21	28	22	19	24	20	16	20	17	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	5.0
20°-30°	612.1	7.4
30°-40°	724.9	8.7
40°-50°	749.5	9.0
50°-60°	690.4	8.3
60°-70°	558.1	6.7
70°-80°	373.4	4.5
80°-90°	194.9	2.3
90°-100°	463.6	5.6
100°-110°	817.4	9.9
110°-120°	742.3	8.9
120°-130°	587.6	7.1
130°-140°	461.0	5.6
140°-150°	340.6	4.1
150°-160°	237.9	2.9
160°-170°	140.2	1.7
170°-180°	45.6	0.5
0°-30°	1168.8	14.1
0°-40°	1893.7	22.8
0°-60°	3333.6	40.2
0°-90°	4460.0	53.8
90°-120°	2023.3	24.4
90°-150°	3412.4	41.1
90°-180°	3836.0	46.2
0°-180°	8296.2	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	190	19
95°	51	151	952	525	376	48
105°	121	188	772	1469	1382	127
115°	201	251	612	1278	1497	198
125°	272	316	565	1007	1171	241
135°	315	376	538	826	957	244
145°	364	416	528	666	738	228
155°	414	446	515	582	607	191
165°	452	465	494	524	532	127
175°	470	470	474	480	478	45
180°	471	471	471	471	471	

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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	80.6	138.4	177.6	190.2
92.5°	35.3	142.5	496.4	251.4	231.0
95°	50.9	151.2	951.6	524.7	376.5
97.5°	66.5	154.4	1013.1	825.1	635.1
100°	83.0	163.0	954.2	1102.6	877.9
102.5°	101.5	175.2	857.9	1336.6	1151.7
105°	120.9	187.7	771.5	1469.2	1382.3
107.5°	139.3	202.7	706.6	1502.6	1517.3
110°	159.7	218.6	661.7	1457.6	1575.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	181.5	234.5	632.9	1371.6	1560.8
115°	201.0	250.9	611.6	1277.7	1497.2
117.5°	218.5	267.8	597.1	1190.4	1406.6
120°	237.5	285.2	585.4	1117.4	1317.4
122.5°	255.9	300.6	574.6	1056.2	1237.7
125°	272.1	316.2	564.8	1007.0	1171.2
127.5°	283.9	332.8	556.8	962.4	1111.1
130°	296.2	349.8	550.4	918.8	1060.8
132.5°	304.2	365.0	544.4	872.4	1010.6
135°	314.7	376.4	538.4	826.4	957.0
137.5°	328.0	388.3	534.9	780.0	900.0
140°	337.9	398.2	531.3	737.0	841.8
142.5°	351.2	406.2	529.3	699.1	787.3
145°	364.5	415.8	528.3	665.6	737.6
147.5°	377.3	424.3	526.4	637.3	691.1
150°	389.6	431.9	523.6	614.8	655.3
152.5°	402.9	439.5	519.8	598.2	629.1
155°	414.3	445.6	515.0	582.0	607.2
157.5°	424.8	451.8	510.3	566.8	587.3
160°	435.2	456.6	505.5	551.6	567.3
162.5°	443.8	461.4	499.8	537.8	549.2
165°	452.3	464.6	494.1	524.0	532.1
167.5°	458.0	466.6	488.4	511.2	516.0
170°	463.7	469.0	483.7	498.8	501.7
172.5°	467.5	469.9	478.0	488.9	488.4
175°	470.4	470.4	474.2	479.9	478.0
177.5°	472.3	470.4	471.3	474.2	471.3
180°	471.3	471.3	471.3	471.3	471.3

(END OF REPORT)