

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: P1027531

Luminaire Tested: S125DIP-B1270D1090UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027531
REPORT IS A COMBINATION OF REPORTS P1001524 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1090UB27-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

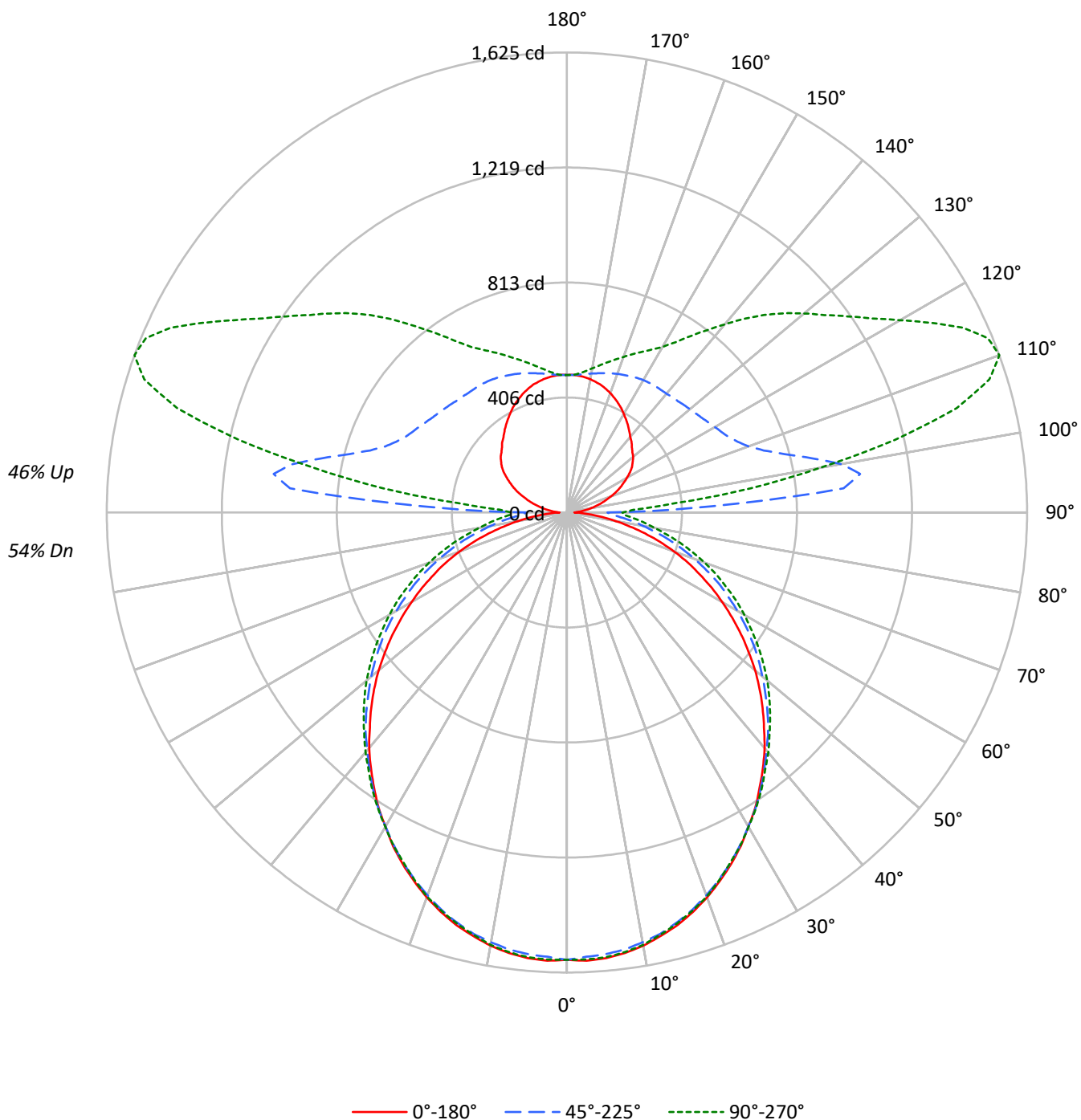
Lumens per Lamp: N/A
Luminaire Lumens: 8554.5 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85		72	72	72		60
1	98	93	89	85	90	86	83	79	74	71	69		62	60	58		51
2	89	81	74	69	82	75	69	65	64	60	56		54	51	48		45
3	81	71	63	57	74	66	59	54	56	51	47		48	44	40		39
4	74	63	54	48	68	58	51	45	50	44	40		42	38	34		35
5	68	56	47	41	62	52	44	39	45	39	34		38	33	30		32
6	62	50	41	35	57	46	39	34	40	34	30		34	29	26		29
7	58	45	37	31	53	42	35	29	36	30	26		31	26	23		26
8	53	41	33	27	49	38	31	26	33	27	23		28	24	20		24
9	50	37	30	24	46	35	28	23	30	25	21		26	22	18		22
10	46	34	27	22	43	32	25	21	28	22	19		24	20	16		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10124	10124	10124
5°	10140	9912	9936
10°	10065	9710	9682
15°	9942	9475	9370
20°	9776	9191	9059
25°	9581	8889	8684
30°	9344	8559	8343
35°	9122	8255	8028
40°	8897	7935	7711
45°	8641	7657	7426
50°	8397	7356	7169
55°	8103	7068	6870
60°	7782	6741	6564
65°	7445	6396	6219
70°	7061	5934	5859
75°	6453	5478	5421
80°	5658	4923	4937
85°	4871	4479	4682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8641 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.7
10°-20°	424.5	5.0
20°-30°	631.2	7.4
30°-40°	747.5	8.7
40°-50°	772.8	9.0
50°-60°	711.9	8.3
60°-70°	575.5	6.7
70°-80°	385.1	4.5
80°-90°	201.0	2.3
90°-100°	478.1	5.6
100°-110°	842.8	9.9
110°-120°	765.3	8.9
120°-130°	605.8	7.1
130°-140°	475.3	5.6
140°-150°	351.1	4.1
150°-160°	245.3	2.9
160°-170°	144.6	1.7
170°-180°	47.0	0.5
0°-30°	1205.2	14.1
0°-40°	1952.7	22.8
0°-60°	3437.5	40.2
0°-90°	4599.1	53.8
90°-120°	2086.2	24.4
90°-150°	3518.4	41.1
90°-180°	3955.0	46.2
0°-180°	8554.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1580	1577	1566	1579	1577	150
15°	1509	1510	1500	1509	1503	425
25°	1371	1376	1366	1373	1365	631
35°	1187	1198	1193	1198	1198	743
45°	978	995	1002	1013	1015	754
55°	751	776	801	818	824	672
65°	517	553	590	614	620	513
75°	285	325	375	406	414	302
85°	85	136	190	225	237	89
90°	26	83	143	183	196	19
95°	52	156	981	541	388	50
105°	125	194	796	1515	1425	131
115°	207	259	631	1317	1544	204
125°	280	326	582	1038	1208	249
135°	324	388	555	852	987	252
145°	376	429	545	686	760	235
155°	427	460	531	600	626	197
165°	466	479	510	540	549	131
175°	485	485	489	495	493	46
180°	486	486	486	486	486	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.1	1580.1	1580.1	1580.1	1580.1
2.5°	1584.8	1581.7	1570.8	1581.7	1580.1
5°	1580.1	1577.0	1566.2	1578.6	1577.0
7.5°	1569.3	1567.7	1556.9	1567.7	1566.2
10°	1553.8	1553.8	1541.4	1552.3	1550.7
12.5°	1532.1	1533.7	1524.4	1532.1	1527.5
15°	1508.9	1510.4	1499.6	1508.9	1502.7
17.5°	1479.4	1482.5	1471.7	1479.4	1474.8
20°	1446.9	1450.0	1439.2	1443.8	1443.8
22.5°	1409.7	1415.9	1403.5	1409.7	1405.1
25°	1371.0	1375.7	1366.4	1372.6	1364.8
27.5°	1329.2	1335.4	1324.5	1329.2	1326.1
30°	1281.2	1290.4	1281.2	1284.3	1282.7
32.5°	1237.8	1245.5	1239.3	1242.4	1240.9
35°	1186.7	1197.5	1192.9	1197.5	1197.5
37.5°	1137.1	1146.4	1144.8	1151.0	1149.5
40°	1086.0	1098.4	1096.8	1103.0	1106.1
42.5°	1030.2	1047.2	1051.9	1059.6	1059.6
45°	977.5	994.6	1002.3	1013.1	1014.7
47.5°	923.3	938.8	951.2	966.7	969.8
50°	867.5	884.6	901.6	918.7	923.3
52.5°	808.7	830.3	852.0	870.6	873.7
55°	751.3	776.1	800.9	818.0	824.2
57.5°	692.5	721.9	749.8	768.4	773.0
60°	633.6	664.6	695.6	718.8	723.5
62.5°	576.3	607.3	641.4	667.7	673.9
65°	517.4	553.0	590.2	613.5	619.7
67.5°	463.2	497.3	534.5	562.3	570.1
70°	402.8	438.4	478.7	508.1	517.4
72.5°	343.9	381.1	426.0	458.6	464.7
75°	285.0	325.3	374.9	405.9	413.6
77.5°	227.7	274.2	320.7	354.8	361.0
80°	175.1	221.5	274.2	308.3	314.5
82.5°	127.0	176.6	230.8	263.4	275.8
85°	85.2	136.3	190.5	224.6	237.0
87.5°	54.2	103.8	156.5	192.1	202.9
90°	25.8	83.2	142.7	183.3	196.0
92.5°	36.4	147.0	511.7	259.2	238.3
95°	52.4	156.0	981.2	541.0	388.2
97.5°	68.6	159.1	1044.5	850.7	654.9
100°	85.6	168.2	983.8	1137.0	905.2
102.5°	104.7	180.6	884.6	1378.0	1187.4
105°	124.6	193.5	795.5	1514.8	1425.2
107.5°	143.7	209.0	728.6	1549.2	1564.5
110°	164.6	225.4	682.2	1502.8	1624.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	187.2	241.8	652.5	1414.2	1609.2
115°	207.2	258.7	630.6	1317.4	1543.7
117.5°	225.2	276.2	615.6	1227.4	1450.3
120°	244.8	294.0	603.5	1152.2	1358.4
122.5°	263.9	310.0	592.4	1089.0	1276.1
125°	280.5	326.0	582.3	1038.2	1207.7
127.5°	292.7	343.0	574.2	992.3	1145.6
130°	305.4	360.8	567.6	947.4	1093.7
132.5°	313.7	376.4	561.4	899.6	1041.9
135°	324.5	388.0	555.2	852.1	986.8
137.5°	338.2	400.2	551.5	804.2	928.0
140°	348.3	410.6	547.9	759.8	867.9
142.5°	362.1	418.8	545.7	720.8	811.8
145°	375.8	428.6	544.8	686.2	760.5
147.5°	389.0	437.5	542.8	657.1	712.6
150°	401.7	445.3	539.9	633.9	675.6
152.5°	415.4	453.2	535.9	616.8	648.6
155°	427.2	459.6	531.0	600.1	626.1
157.5°	438.0	465.9	526.1	584.4	605.5
160°	448.7	470.8	521.2	568.8	584.9
162.5°	457.6	475.6	515.4	554.6	566.3
165°	466.4	479.1	509.5	540.3	548.7
167.5°	472.2	481.0	503.6	527.2	532.0
170°	478.1	483.5	498.7	514.4	517.3
172.5°	482.0	484.5	492.8	504.1	503.6
175°	485.0	485.0	488.9	494.8	492.8
177.5°	486.9	485.0	486.0	488.9	486.0
180°	486.0	486.0	486.0	486.0	486.0

(END OF REPORT)