

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: P1027585

Luminaire Tested: S125DIP-B1270D1270UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027585
REPORT IS A COMBINATION OF REPORTS P1001608 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1270UB30-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

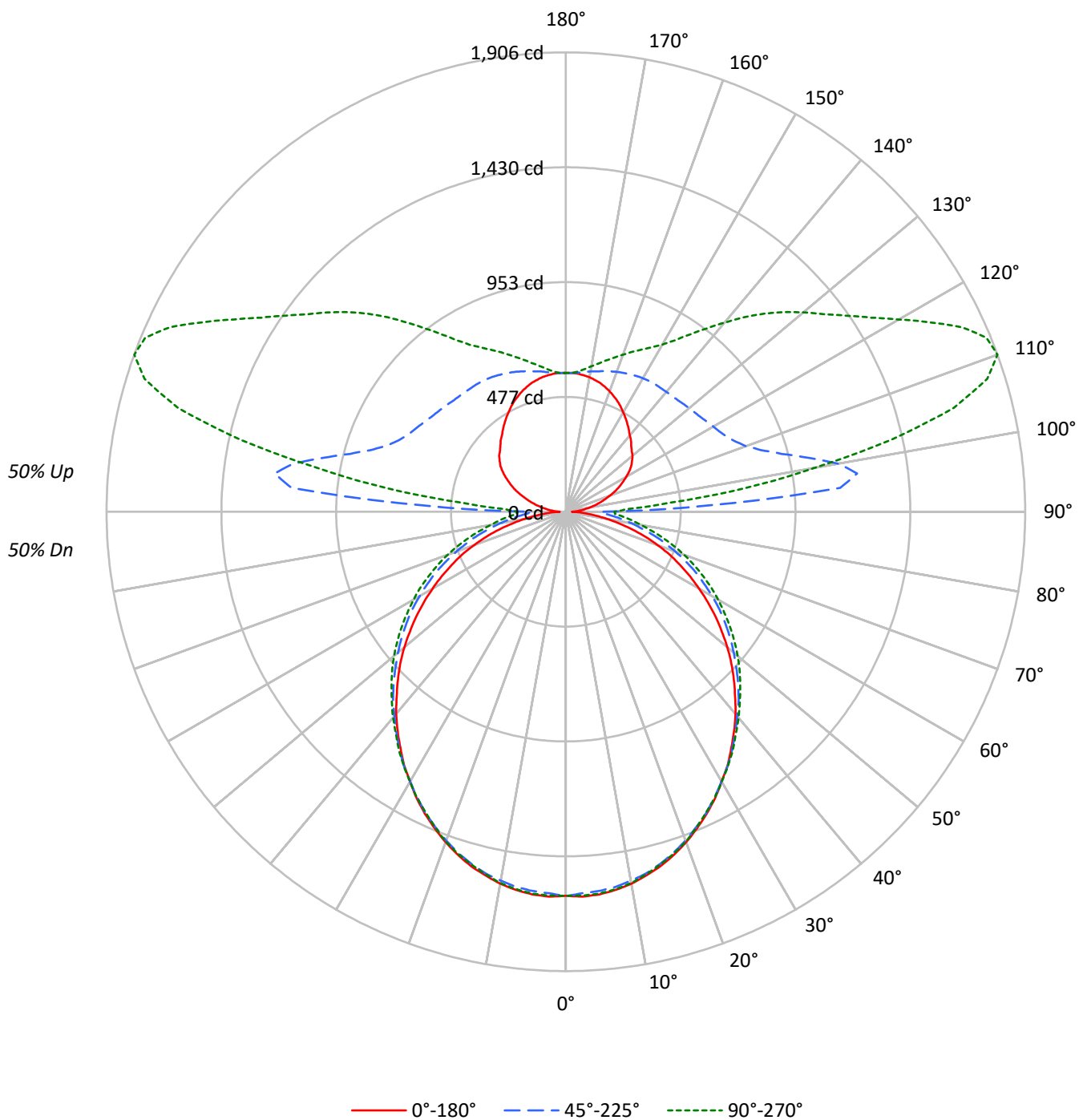
Lumens per Lamp: N/A
Luminaire Lumens: 9273.9 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	82	78	72	69	67	60	58	56	48	47	46
2	88	80	74	68	81	74	69	64	63	58	55	52	49	46	42	40	38
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	37	34	32
4	73	62	54	48	67	57	50	45	49	43	39	41	36	33	33	30	27
5	67	55	47	41	62	51	44	38	43	38	33	36	32	28	30	26	24
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	24	21
7	57	45	36	31	52	41	34	29	35	30	25	30	25	22	25	21	18
8	53	40	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17
9	49	37	29	24	45	34	27	23	30	24	20	25	21	17	21	17	15
10	46	34	26	22	42	32	25	20	27	22	18	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10211	10211	10211
5°	10228	9997	10021
10°	10151	9793	9765
15°	10027	9556	9450
20°	9860	9269	9137
25°	9663	8965	8759
30°	9423	8632	8414
35°	9200	8326	8097
40°	8973	8003	7777
45°	8715	7723	7490
50°	8469	7419	7230
55°	8173	7129	6929
60°	7848	6799	6620
65°	7510	6451	6273
70°	7120	5985	5910
75°	6510	5524	5469
80°	5707	4966	4980
85°	4911	4519	4723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8715 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	1.6
10°-20°	428.1	4.6
20°-30°	636.6	6.9
30°-40°	754.0	8.1
40°-50°	779.5	8.4
50°-60°	718.0	7.7
60°-70°	580.5	6.3
70°-80°	388.4	4.2
80°-90°	203.1	2.2
90°-100°	546.8	5.9
100°-110°	984.2	10.6
110°-120°	897.2	9.7
120°-130°	712.4	7.7
130°-140°	560.9	6.0
140°-150°	415.7	4.5
150°-160°	290.7	3.1
160°-170°	171.4	1.8
170°-180°	55.7	0.6
0°-30°	1215.5	13.1
0°-40°	1969.5	21.2
0°-60°	3467.0	37.4
0°-90°	4638.9	50.0
90°-120°	2428.2	26.2
90°-150°	4117.2	44.4
90°-180°	4635.0	50.0
0°-180°	9273.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1594	1591	1580	1592	1591	151
15°	1522	1523	1512	1522	1516	429
25°	1383	1388	1378	1384	1376	637
35°	1197	1208	1203	1208	1208	749
45°	986	1003	1011	1022	1023	761
55°	758	783	808	825	831	677
65°	522	558	595	619	625	518
75°	288	328	378	409	417	305
85°	86	138	192	227	239	90
90°	26	85	147	188	202	20
95°	59	174	1143	615	432	56
105°	145	223	928	1775	1667	153
115°	244	303	737	1546	1812	240
125°	331	386	684	1220	1419	294
135°	384	460	656	1004	1162	298
145°	445	508	646	812	899	279
155°	506	545	629	711	742	233
165°	553	568	604	640	650	156
175°	575	575	579	586	584	55
180°	576	576	576	576	576	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.7	1593.7	1593.7	1593.7	1593.7
2.5°	1598.4	1595.3	1584.3	1595.3	1593.7
5°	1593.7	1590.6	1579.6	1592.1	1590.6
7.5°	1582.8	1581.2	1570.3	1581.2	1579.6
10°	1567.1	1567.1	1554.6	1565.6	1564.0
12.5°	1545.3	1546.8	1537.5	1545.3	1540.6
15°	1521.8	1523.4	1512.5	1521.8	1515.6
17.5°	1492.1	1495.3	1484.3	1492.1	1487.5
20°	1459.3	1462.5	1451.5	1456.2	1456.2
22.5°	1421.8	1428.1	1415.6	1421.8	1417.1
25°	1382.8	1387.5	1378.1	1384.3	1376.5
27.5°	1340.6	1346.8	1335.9	1340.6	1337.5
30°	1292.1	1301.5	1292.1	1295.3	1293.7
32.5°	1248.4	1256.2	1250.0	1253.1	1251.5
35°	1196.8	1207.8	1203.1	1207.8	1207.8
37.5°	1146.8	1156.2	1154.7	1160.9	1159.3
40°	1095.3	1107.8	1106.2	1112.5	1115.6
42.5°	1039.0	1056.2	1060.9	1068.7	1068.7
45°	985.9	1003.1	1010.9	1021.8	1023.4
47.5°	931.2	946.8	959.3	975.0	978.1
50°	875.0	892.2	909.3	926.5	931.2
52.5°	815.6	837.5	859.3	878.1	881.2
55°	757.8	782.8	807.8	825.0	831.2
57.5°	698.4	728.1	756.2	775.0	779.7
60°	639.0	670.3	701.5	725.0	729.7
62.5°	581.2	612.5	646.9	673.4	679.7
65°	521.9	557.8	595.3	618.7	625.0
67.5°	467.2	501.5	539.0	567.2	575.0
70°	406.2	442.2	482.8	512.5	521.9
72.5°	346.9	384.4	429.7	462.5	468.7
75°	287.5	328.1	378.1	409.4	417.2
77.5°	229.7	276.6	323.4	357.8	364.1
80°	176.6	223.4	276.6	310.9	317.2
82.5°	128.1	178.1	232.8	265.6	278.1
85°	85.9	137.5	192.2	226.6	239.1
87.5°	54.7	104.7	157.8	193.7	204.7
90°	26.2	85.4	146.7	188.4	201.7
92.5°	39.3	162.4	585.2	279.8	253.1
95°	58.6	174.1	1142.9	615.2	432.3
97.5°	77.9	178.7	1219.0	983.6	749.6
100°	98.5	190.5	1148.5	1324.1	1047.9
102.5°	121.3	206.2	1031.9	1611.2	1383.8
105°	145.3	222.6	927.7	1774.7	1666.6
107.5°	168.1	241.6	849.5	1816.6	1833.0
110°	193.2	261.9	795.6	1763.0	1905.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.9	282.2	761.6	1659.4	1888.5
115°	243.9	303.0	736.7	1545.8	1812.2
117.5°	265.6	324.5	720.0	1440.3	1702.7
120°	288.8	346.3	706.8	1352.2	1595.0
122.5°	311.6	366.0	694.8	1278.9	1499.0
125°	331.3	385.6	683.8	1219.7	1419.1
127.5°	346.1	406.0	675.3	1166.6	1346.7
130°	361.2	426.9	668.3	1114.6	1286.7
132.5°	371.2	445.5	662.0	1058.9	1226.6
135°	383.9	459.6	655.8	1004.1	1162.2
137.5°	400.2	474.2	652.2	948.6	1094.1
140°	412.6	486.4	648.7	897.0	1024.0
142.5°	428.9	496.4	646.7	851.8	958.5
145°	445.1	508.0	645.6	811.9	898.9
147.5°	461.0	518.4	643.3	778.2	843.4
150°	476.1	527.8	639.8	751.2	800.5
152.5°	492.3	537.0	635.1	731.0	768.7
155°	506.3	544.6	629.3	711.2	742.0
157.5°	519.0	552.1	623.5	692.6	717.6
160°	531.8	557.9	617.7	674.0	693.2
162.5°	542.2	563.8	610.8	657.2	671.1
165°	552.7	567.8	603.8	640.4	650.2
167.5°	559.7	570.1	596.8	624.7	630.5
170°	566.6	573.0	591.0	609.6	613.1
172.5°	571.3	574.2	584.0	597.4	596.8
175°	574.8	574.8	579.4	586.4	584.0
177.5°	577.1	574.8	575.9	579.4	575.9
180°	575.9	575.9	575.9	575.9	575.9

(END OF REPORT)