

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: P1027628

Luminaire Tested: S125DIP-B1270D375UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027628
REPORT IS A COMBINATION OF REPORTS P1001666 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D375UB30-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

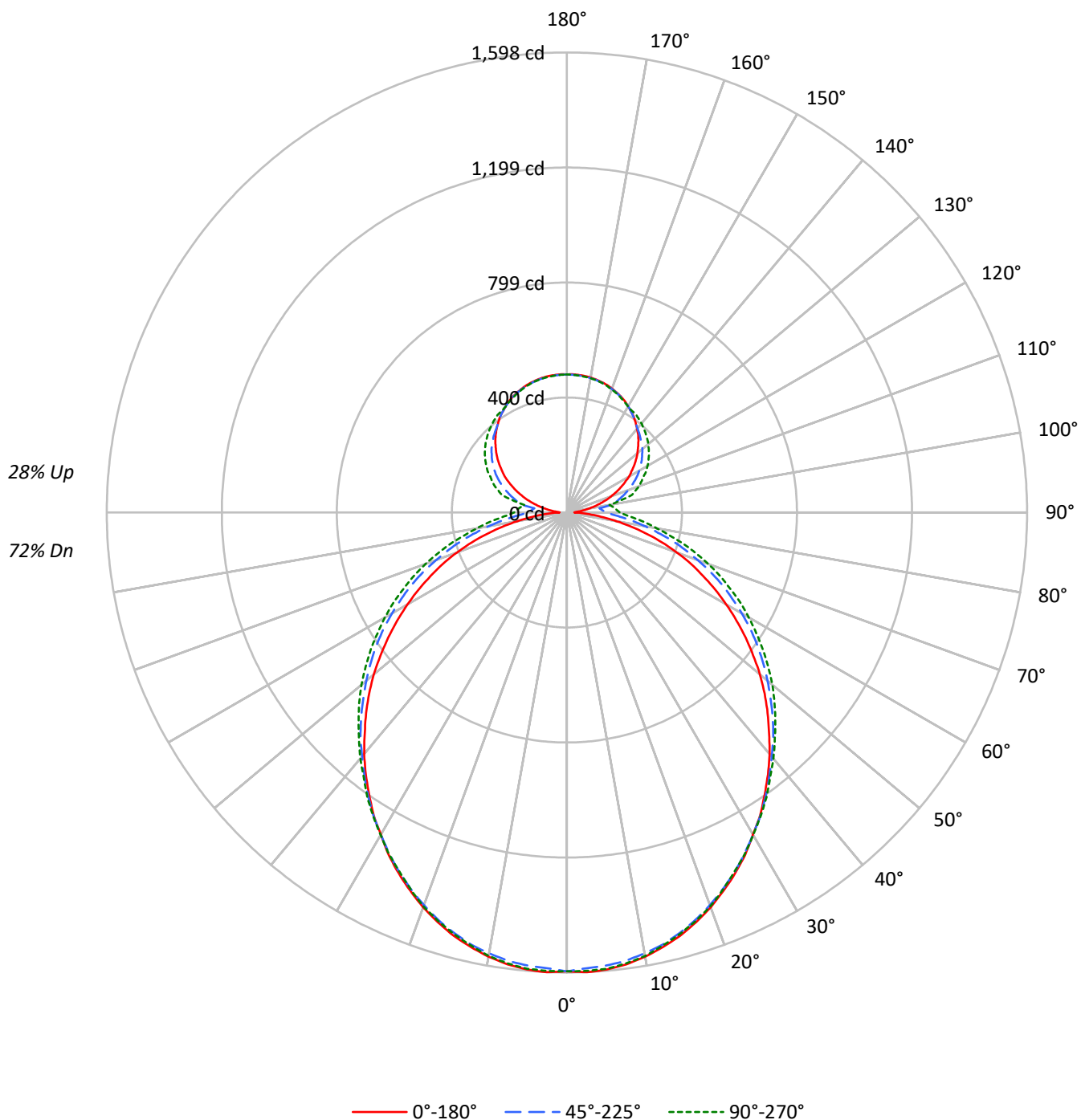
Lumens per Lamp: N/A
Luminaire Lumens: 6411.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77
1	102	97	92	88	96	92	88	84	83	79	77	74	72	69	66	64	63
2	92	84	77	71	87	80	74	68	72	67	63	64	61	57	58	55	52
3	84	74	65	59	79	70	63	57	63	57	52	57	52	48	51	47	44
4	77	65	56	50	72	62	54	48	56	49	44	50	45	41	45	41	37
5	70	58	49	43	66	55	47	41	50	43	38	45	40	35	41	36	32
6	65	52	43	37	61	50	42	36	45	38	33	41	35	31	37	32	29
7	60	47	38	33	57	45	37	31	41	34	29	37	31	27	34	29	25
8	56	43	34	29	53	41	33	28	37	31	26	34	28	24	31	26	23
9	52	39	31	26	49	37	30	25	34	28	23	31	26	22	28	24	20
10	49	36	28	23	46	34	27	23	32	25	21	29	24	20	26	22	19

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	2.4
10°-20°	428.1	6.7
20°-30°	636.6	9.9
30°-40°	754.0	11.8
40°-50°	779.5	12.2
50°-60°	718.0	11.2
60°-70°	580.5	9.1
70°-80°	388.4	6.1
80°-90°	201.5	3.1
90°-100°	129.4	2.0
100°-110°	191.6	3.0
110°-120°	250.7	3.9
120°-130°	281.8	4.4
130°-140°	282.9	4.4
140°-150°	255.3	4.0
150°-160°	204.3	3.2
160°-170°	132.1	2.1
170°-180°	45.6	0.7
0°-30°	1215.5	19.0
0°-40°	1969.5	30.7
0°-60°	3467.0	54.1
0°-90°	4637.3	72.3
90°-120°	571.7	8.9
90°-150°	1391.7	21.7
90°-180°	1774.0	27.7
0°-180°	6411.0	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°	25	78	134	172	184	18
95°	41	80	120	156	167	41
105°	119	145	192	223	234	126
115°	206	218	259	286	293	204
125°	285	286	318	341	348	255
135°	351	352	362	382	387	271
145°	405	404	404	412	417	253
155°	444	442	443	444	441	205
165°	469	467	467	469	466	132
175°	480	478	478	481	478	46
180°	480	480	480	480	480	

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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°	25.4	78.2	133.8	171.6	183.5
92.5°	28.7	70.8	127.6	163.7	175.0
95°	40.6	80.1	119.8	155.9	166.9
97.5°	56.7	96.4	114.2	147.7	159.1
100°	76.6	110.4	161.9	141.7	149.7
102.5°	96.7	127.8	176.9	208.9	188.4
105°	118.6	145.0	191.8	223.1	233.7
107.5°	141.2	163.1	209.1	240.7	248.6
110°	163.1	181.9	226.3	254.9	266.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	185.1	200.3	242.8	269.5	279.7
115°	205.7	218.3	259.3	286.1	293.2
117.5°	227.2	235.0	275.5	299.9	310.1
120°	248.5	252.8	289.8	315.7	323.3
122.5°	265.7	269.1	303.9	328.2	335.4
125°	285.3	286.3	317.5	341.1	347.8
127.5°	302.6	302.8	329.1	351.8	358.3
130°	319.7	319.9	342.1	363.0	369.0
132.5°	335.2	337.3	351.8	373.7	378.3
135°	351.2	351.8	362.0	381.6	387.2
137.5°	366.1	366.7	372.2	391.0	395.4
140°	379.2	379.9	381.0	398.9	403.1
142.5°	392.3	391.1	391.8	405.9	410.0
145°	405.1	404.2	404.2	412.4	416.6
147.5°	414.9	414.9	415.3	418.7	419.3
150°	425.6	424.9	425.6	426.3	425.0
152.5°	435.9	434.1	434.8	435.5	433.0
155°	444.4	442.3	443.0	444.1	441.2
157.5°	451.2	450.1	450.1	451.2	448.3
160°	458.3	456.2	456.5	457.9	455.1
162.5°	464.0	461.8	462.2	464.3	461.1
165°	469.0	466.8	467.2	469.3	466.5
167.5°	472.9	470.7	471.1	473.6	470.4
170°	476.1	473.6	473.9	476.8	473.6
172.5°	478.2	475.7	476.4	478.9	475.7
175°	479.6	477.5	477.8	480.7	477.5
177.5°	480.7	478.6	478.9	481.4	478.6
180°	479.6	479.6	479.6	479.6	479.6

(END OF REPORT)