

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: P1027630

Luminaire Tested: S125DIP-B1270D375UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027630
REPORT IS A COMBINATION OF REPORTS P1001668 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-D4
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

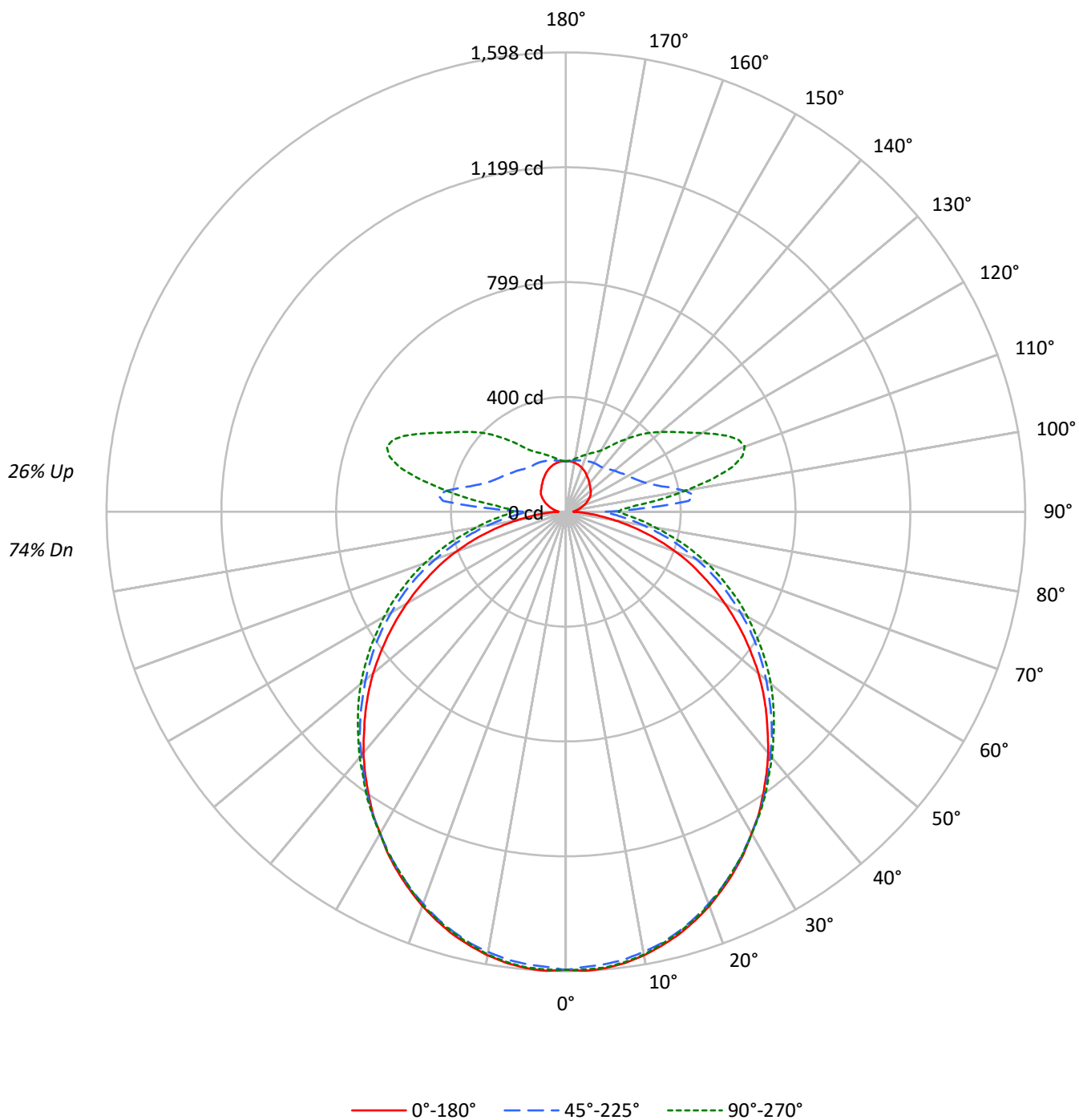
Lumens per Lamp: N/A
Luminaire Lumens: 6264.7 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
Input Voltage (V):
Input Current (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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78
1	102	97	93	89	97	92	88	85	83	80	77	75	73	70	67	66	64
2	93	84	77	72	87	80	74	69	72	67	63	65	61	58	59	56	53
3	84	74	66	59	80	70	63	57	64	58	53	57	53	49	52	48	45
4	77	65	57	50	73	62	54	48	56	50	45	51	46	41	46	42	38
5	71	58	49	43	67	55	47	41	50	44	39	46	40	36	41	37	33
6	65	52	43	37	62	50	42	36	45	39	34	41	36	31	37	33	29
7	60	47	39	33	57	45	37	32	41	35	30	38	32	28	34	29	26
8	56	43	35	29	53	41	33	28	38	31	26	34	29	25	31	27	23
9	52	39	31	26	50	38	30	25	35	28	24	32	26	22	29	24	21
10	49	36	28	23	46	35	28	23	32	26	21	29	24	20	27	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	6.8
20°-30°	636.6	10.2
30°-40°	754.0	12.0
40°-50°	779.5	12.4
50°-60°	718.0	11.5
60°-70°	580.5	9.3
70°-80°	388.4	6.2
80°-90°	201.5	3.2
90°-100°	245.8	3.9
100°-110°	359.1	5.7
110°-120°	313.4	5.0
120°-130°	240.0	3.8
130°-140°	181.3	2.9
140°-150°	129.2	2.1
150°-160°	89.0	1.4
160°-170°	52.5	0.8
170°-180°	17.1	0.3
0°-30°	1215.5	19.4
0°-40°	1969.5	31.4
0°-60°	3467.0	55.3
0°-90°	4637.3	74.0
90°-120°	918.4	14.7
90°-150°	1468.9	23.4
90°-180°	1627.0	26.0
0°-180°	6264.7	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	183	18
95°	32	96	429	291	243	28
105°	54	95	344	625	599	57
115°	81	107	268	535	623	80
125°	106	121	234	416	482	94
135°	120	142	209	330	384	93
145°	137	156	198	254	285	86
155°	155	167	193	218	227	71
165°	169	174	185	196	199	48
175°	176	176	177	180	179	17
180°	176	176	176	176	176	

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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	171.5	183.2
92.5°	27.2	96.4	263.7	194.0	193.5
95°	32.0	95.6	429.0	291.3	242.9
97.5°	36.8	93.7	448.0	398.6	334.7
100°	42.1	93.0	421.0	497.5	419.5
102.5°	47.9	94.6	380.9	580.0	516.9
105°	54.3	95.2	343.6	624.6	599.1
107.5°	60.1	97.8	315.4	633.1	644.6
110°	66.7	100.8	294.5	611.2	662.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	74.9	103.8	279.8	574.1	651.9
115°	81.2	106.8	267.8	535.1	623.1
117.5°	86.7	110.2	258.4	497.3	585.2
120°	93.8	114.7	250.0	466.0	546.9
122.5°	99.7	117.4	242.0	438.1	512.1
125°	105.7	121.3	234.3	415.7	482.1
127.5°	109.2	126.4	227.3	394.0	455.7
130°	113.8	132.8	221.9	373.8	431.9
132.5°	115.8	138.5	215.6	352.4	408.1
135°	119.7	141.8	209.4	330.2	384.0
137.5°	124.7	146.3	205.1	308.8	357.7
140°	127.4	150.0	200.7	288.7	332.0
142.5°	132.4	152.0	198.0	270.6	307.5
145°	137.4	155.5	197.6	254.0	285.0
147.5°	141.1	158.8	196.9	240.4	262.5
150°	145.7	161.6	195.9	230.0	246.2
152.5°	150.7	164.4	194.4	223.8	235.3
155°	155.0	166.7	192.7	217.8	227.1
157.5°	158.9	169.0	190.9	212.0	219.7
160°	162.8	170.8	189.1	206.4	212.2
162.5°	166.0	172.6	187.0	201.2	205.5
165°	169.2	173.9	184.8	196.0	199.1
167.5°	171.3	174.5	182.7	191.2	193.0
170°	173.5	175.4	180.9	186.6	187.7
172.5°	174.9	175.8	178.8	182.9	182.7
175°	176.0	176.0	177.4	179.5	178.8
177.5°	176.7	176.0	176.3	177.4	176.3
180°	176.3	176.3	176.3	176.3	176.3

(END OF REPORT)