

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: P1027701

Luminaire Tested: S125DIP-B1270D610UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027701
REPORT IS A COMBINATION OF REPORTS P1001754 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D610UB50-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

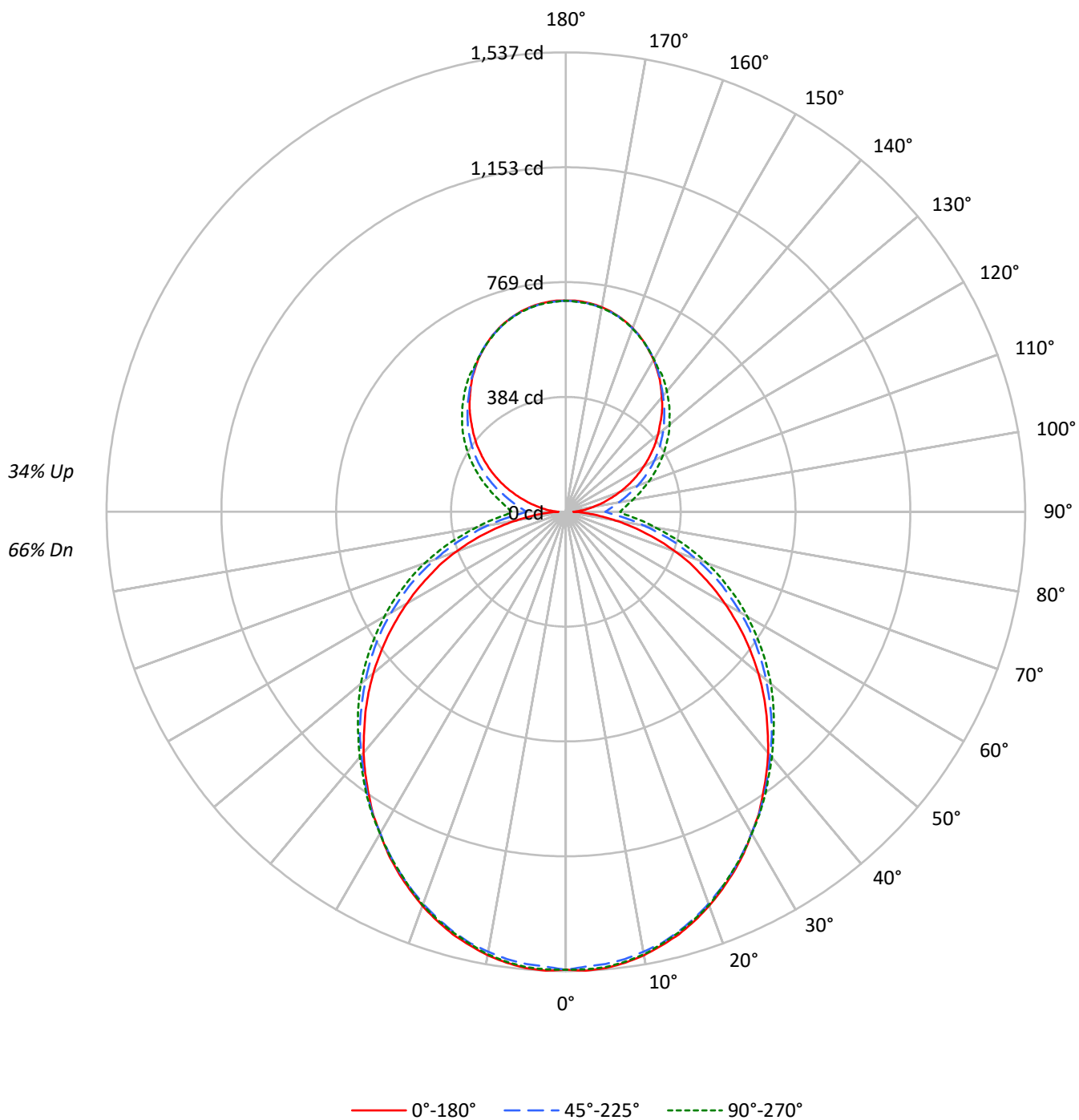
Lumens per Lamp: N/A
Luminaire Lumens: 6719.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71
1	100	96	91	87	94	90	86	83	80	77	74	70	68	66	61	60	58
2	91	83	76	71	85	78	72	67	69	65	61	61	57	54	53	51	48
3	83	73	65	58	78	69	61	56	61	55	51	54	49	45	47	44	41
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	42	38	35
5	70	57	48	42	65	54	46	40	48	42	37	43	38	33	38	33	30
6	64	51	43	37	60	49	41	35	43	37	32	39	33	29	34	30	26
7	59	46	38	32	56	44	36	31	39	33	28	35	30	26	31	27	23
8	55	42	34	28	52	40	32	27	36	30	25	32	27	23	29	24	21
9	51	38	31	25	48	37	29	24	33	27	23	30	24	21	26	22	19
10	48	35	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17

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	2.2
10°-20°	411.6	6.1
20°-30°	612.1	9.1
30°-40°	724.9	10.8
40°-50°	749.5	11.2
50°-60°	690.4	10.3
60°-70°	558.1	8.3
70°-80°	373.4	5.6
80°-90°	194.1	2.9
90°-100°	155.7	2.3
100°-110°	219.7	3.3
110°-120°	290.2	4.3
120°-130°	341.8	5.1
130°-140°	362.3	5.4
140°-150°	344.7	5.1
150°-160°	287.4	4.3
160°-170°	191.0	2.8
170°-180°	66.8	1.0
0°-30°	1168.8	17.4
0°-40°	1893.7	28.2
0°-60°	3333.6	49.6
0°-90°	4459.3	66.4
90°-120°	665.6	9.9
90°-150°	1714.5	25.5
90°-180°	2260.0	33.6
0°-180°	6719.0	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°	24	77	132	169	182	19
95°	55	95	152	189	200	53
105°	139	166	214	247	260	148
115°	246	259	299	325	334	243
125°	352	354	384	407	414	315
135°	452	454	465	485	490	349
145°	546	547	548	556	560	341
155°	623	623	624	626	623	287
165°	678	676	677	679	676	191
175°	704	702	702	706	702	67
180°	706	706	706	706	706	

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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°	24.5	77.0	132.0	169.2	181.5
92.5°	37.5	83.8	141.4	178.2	189.8
95°	55.2	95.4	152.0	188.9	200.5
97.5°	73.0	109.6	166.9	201.7	212.7
100°	93.4	125.0	180.2	216.7	226.8
102.5°	115.6	146.9	196.2	231.8	242.4
105°	138.8	165.6	213.9	247.3	259.5
107.5°	164.2	188.1	234.3	266.1	275.1
110°	190.8	211.5	255.3	285.5	295.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.3	233.9	276.7	304.3	313.8
115°	245.9	258.6	298.8	325.2	333.7
117.5°	272.9	281.0	319.7	345.7	354.0
120°	299.3	306.6	341.7	367.2	374.0
122.5°	326.4	328.4	363.2	386.6	394.0
125°	351.7	353.5	384.1	407.0	414.0
127.5°	378.2	378.3	404.4	426.4	434.3
130°	402.9	404.2	426.3	446.8	453.2
132.5°	426.2	431.1	445.6	466.1	470.5
135°	452.5	454.3	465.4	484.9	490.3
137.5°	477.3	479.1	486.2	504.7	508.0
140°	499.4	502.1	505.3	522.9	526.1
142.5°	523.0	523.7	525.9	540.0	543.2
145°	546.1	546.8	548.5	556.0	560.3
147.5°	566.0	567.7	568.8	573.4	572.0
150°	587.5	586.9	589.1	589.1	589.5
152.5°	605.1	606.2	606.7	608.4	606.2
155°	623.2	623.2	623.7	625.9	623.2
157.5°	639.7	638.6	639.1	641.3	637.5
160°	654.0	652.3	652.9	655.1	652.3
162.5°	666.6	665.5	665.5	668.3	665.0
165°	677.6	676.5	677.1	679.3	676.0
167.5°	687.5	685.3	685.3	688.6	685.3
170°	695.2	693.0	693.0	696.3	692.4
172.5°	700.7	698.5	698.5	701.8	698.5
175°	704.5	702.3	702.3	705.6	701.8
177.5°	707.3	705.1	704.5	707.8	704.0
180°	706.2	706.2	706.2	706.2	706.2

(END OF REPORT)