

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: P1027702

Luminaire Tested: S125DIP-B1270D610UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027702
REPORT IS A COMBINATION OF REPORTS P1001755 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-D4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

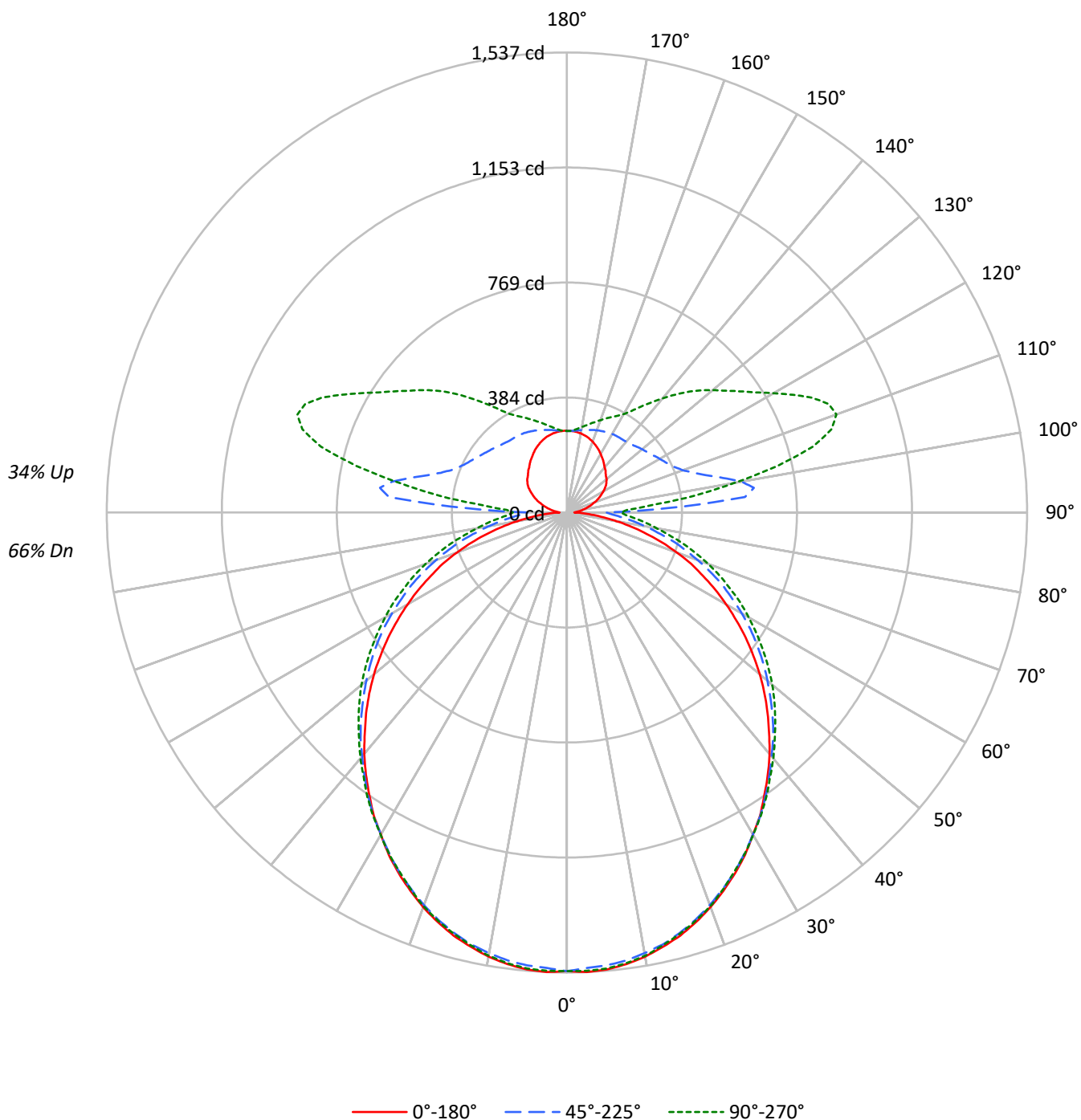
Lumens per Lamp: N/A
Luminaire Lumens: 6800.2 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66		
1	100	95	91	87	94	90	86	83	79	76	74	70	67	65	61	59	58	53		
2	91	83	76	70	85	78	72	67	69	64	60	61	57	54	53	50	48	44		
3	83	73	65	58	77	68	61	56	61	55	50	53	49	45	47	43	40	37		
4	76	64	56	49	71	60	53	47	54	48	43	47	42	38	41	38	34	31		
5	69	57	48	42	65	54	46	40	48	42	37	42	37	33	37	33	30	27		
6	64	51	43	36	60	48	41	35	43	37	32	38	33	29	34	30	26	24		
7	59	46	38	32	55	44	36	31	39	33	28	35	30	26	31	27	23	21		
8	55	42	34	28	52	40	32	27	36	30	25	32	27	23	28	24	21	19		
9	51	38	31	25	48	36	29	24	33	27	22	29	24	21	26	22	19	17		
10	48	35	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17	15		

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	2.1
10°-20°	411.6	6.1
20°-30°	612.1	9.0
30°-40°	724.9	10.7
40°-50°	749.5	11.0
50°-60°	690.4	10.2
60°-70°	558.1	8.2
70°-80°	373.4	5.5
80°-90°	194.1	2.9
90°-100°	314.0	4.6
100°-110°	506.7	7.5
110°-120°	452.0	6.6
120°-130°	352.7	5.2
130°-140°	272.3	4.0
140°-150°	198.1	2.9
150°-160°	137.6	2.0
160°-170°	81.1	1.2
170°-180°	26.4	0.4
0°-30°	1168.8	17.2
0°-40°	1893.7	27.8
0°-60°	3333.6	49.0
0°-90°	4459.2	65.6
90°-120°	1272.7	18.7
90°-150°	2095.8	30.8
90°-180°	2341.0	34.4
0°-180°	6800.2	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	181	18
95°	38	112	597	364	282	34
105°	76	124	481	897	852	80
115°	120	153	378	775	906	118
125°	160	185	341	607	705	142
135°	183	218	316	491	570	142
145°	212	240	306	388	432	132
155°	240	258	298	337	351	110
165°	262	269	286	303	308	74
175°	272	272	274	278	276	26
180°	273	273	273	273	273	

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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	180.9
92.5°	29.2	109.7	336.5	208.8	201.4
95°	37.6	112.2	596.7	363.7	282.4
97.5°	46.0	112.1	629.8	534.3	428.8
100°	55.0	114.6	592.5	691.7	565.5
102.5°	65.0	119.8	534.3	823.9	720.7
105°	75.6	124.5	481.1	897.4	851.6
107.5°	85.7	131.2	441.1	914.2	926.5
110°	96.8	138.4	412.5	885.0	957.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.4	145.8	393.3	832.0	946.0
115°	120.0	153.4	378.5	775.3	906.0
117.5°	129.5	161.2	367.6	721.5	851.0
120°	140.5	170.0	358.3	676.8	796.3
122.5°	150.6	177.1	349.5	638.2	747.0
125°	159.9	184.8	341.3	607.2	705.4
127.5°	166.1	193.8	334.1	578.3	668.1
130°	173.3	203.6	328.5	550.6	635.8
132.5°	177.3	212.4	322.5	521.2	603.6
135°	183.3	218.4	316.5	491.4	570.1
137.5°	191.0	225.2	312.6	462.0	533.9
140°	196.1	231.0	308.6	434.6	497.7
142.5°	203.8	235.0	306.2	410.1	463.7
145°	211.5	240.5	305.6	388.2	432.4
147.5°	218.2	245.4	304.5	370.0	402.3
150°	225.4	249.8	302.9	355.6	379.7
152.5°	233.1	254.2	300.7	346.0	363.9
155°	239.7	257.8	297.9	336.7	351.3
157.5°	245.7	261.4	295.2	327.9	339.7
160°	251.8	264.2	292.4	319.1	328.2
162.5°	256.7	266.9	289.1	311.2	317.7
165°	261.7	268.8	285.8	303.2	307.8
167.5°	265.0	269.9	282.6	295.7	298.5
170°	268.3	271.3	279.8	288.6	290.2
172.5°	270.5	271.8	276.5	282.8	282.6
175°	272.1	272.1	274.3	277.6	276.5
177.5°	273.2	272.1	272.7	274.3	272.7
180°	272.7	272.7	272.7	272.7	272.7

(END OF REPORT)