

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: P1027657

Luminaire Tested: S125DIP-B1270D375UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027657
REPORT IS A COMBINATION OF REPORTS P1001695 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D375UB50-4F0-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

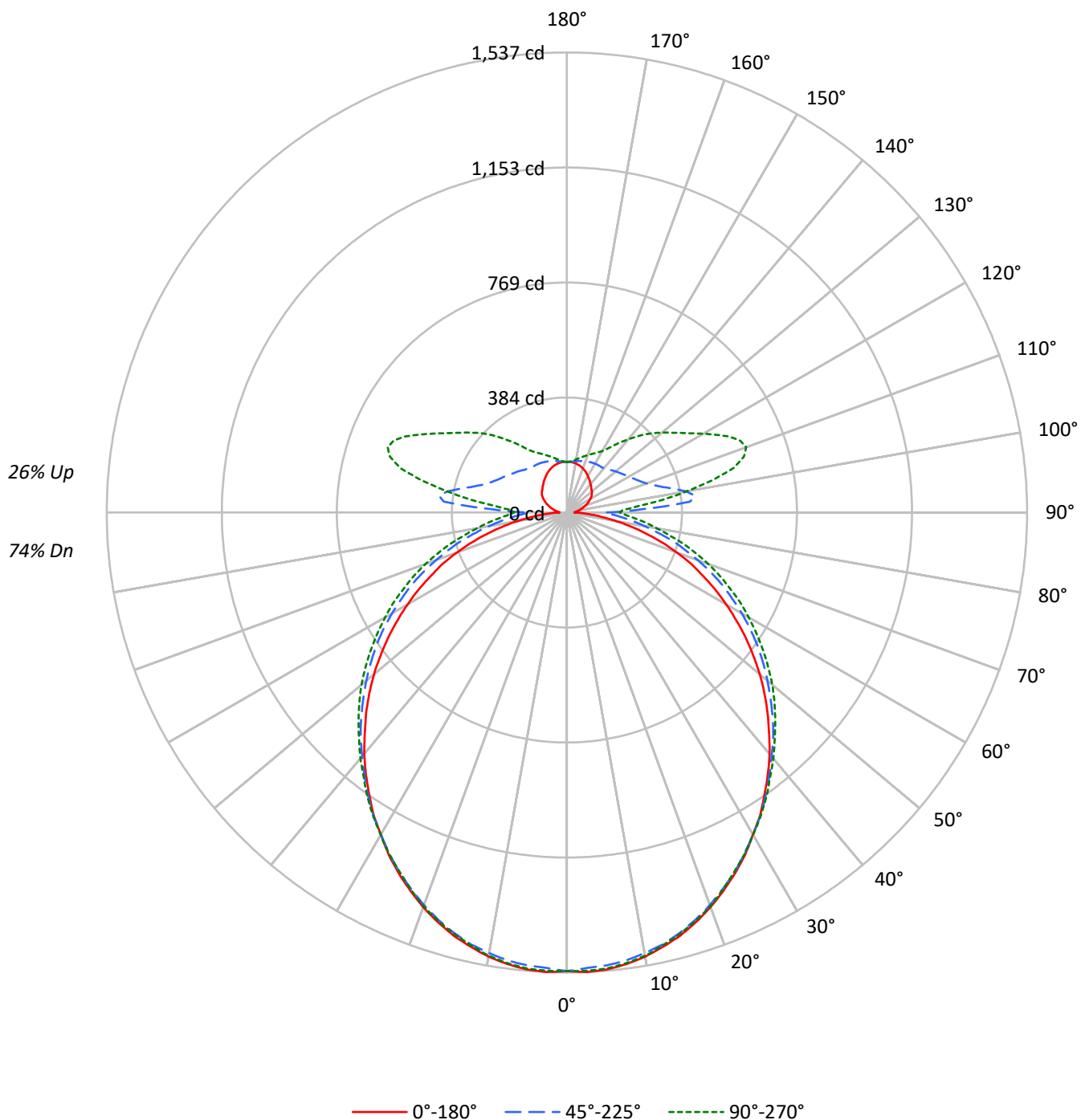
Lumens per Lamp: N/A
Luminaire Lumens: 6023.6 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	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°	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	2.4
10°-20°	411.6	6.8
20°-30°	612.1	10.2
30°-40°	724.9	12.0
40°-50°	749.5	12.4
50°-60°	690.4	11.5
60°-70°	558.1	9.3
70°-80°	373.4	6.2
80°-90°	193.7	3.2
90°-100°	236.4	3.9
100°-110°	345.3	5.7
110°-120°	301.3	5.0
120°-130°	230.8	3.8
130°-140°	174.3	2.9
140°-150°	124.2	2.1
150°-160°	85.6	1.4
160°-170°	50.4	0.8
170°-180°	16.4	0.3
0°-30°	1168.8	19.4
0°-40°	1893.7	31.4
0°-60°	3333.6	55.3
0°-90°	4458.8	74.0
90°-120°	883.0	14.7
90°-150°	1412.3	23.4
90°-180°	1565.0	26.0
0°-180°	6023.6	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	75	129	165	176	17
95°	31	92	412	280	234	27
105°	52	92	330	601	576	55
115°	78	103	258	514	599	77
125°	102	117	225	400	464	90
135°	115	136	201	317	369	89
145°	132	150	190	244	274	82
155°	149	160	185	209	218	69
165°	163	167	178	188	191	46
175°	169	169	171	173	172	16
180°	170	170	170	170	170	

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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°	24.3	75.1	128.7	164.8	176.2
92.5°	26.1	92.6	253.6	186.6	186.0
95°	30.8	91.9	412.5	280.1	233.5
97.5°	35.4	90.2	430.8	383.3	321.7
100°	40.4	89.4	404.7	478.4	403.3
102.5°	46.1	90.9	366.3	557.7	497.0
105°	52.1	91.6	330.4	600.6	576.1
107.5°	57.8	94.1	303.2	608.8	619.8
110°	64.2	96.8	283.2	587.8	637.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	72.0	99.7	269.0	552.0	626.8
115°	78.0	102.8	257.5	514.4	599.1
117.5°	83.4	105.9	248.4	478.2	562.7
120°	90.2	110.2	240.4	448.0	525.8
122.5°	95.9	113.0	232.7	421.2	492.3
125°	101.7	116.6	225.3	399.7	463.6
127.5°	105.0	121.6	218.5	378.9	438.1
130°	109.4	127.8	213.4	359.4	415.2
132.5°	111.3	133.2	207.4	338.8	392.4
135°	115.1	136.4	201.4	317.4	369.3
137.5°	119.9	140.6	197.2	296.8	343.9
140°	122.5	144.2	193.0	277.6	319.1
142.5°	127.3	146.1	190.4	260.1	295.7
145°	132.1	149.6	190.0	244.2	273.9
147.5°	135.7	152.6	189.4	231.2	252.4
150°	140.1	155.3	188.3	221.2	236.7
152.5°	144.9	158.0	187.0	215.2	226.3
155°	149.0	160.3	185.3	209.4	218.4
157.5°	152.8	162.5	183.5	203.9	211.2
160°	156.5	164.2	181.8	198.4	204.0
162.5°	159.6	165.9	179.8	193.4	197.6
165°	162.7	167.1	177.7	188.5	191.4
167.5°	164.7	167.8	175.7	183.9	185.6
170°	166.8	168.7	174.0	179.4	180.5
172.5°	168.2	169.0	171.9	175.8	175.7
175°	169.2	169.2	170.6	172.6	171.9
177.5°	169.9	169.2	169.5	170.6	169.5
180°	169.5	169.5	169.5	169.5	169.5

(END OF REPORT)