

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: P1027648

Luminaire Tested: S125DIP-B1270D375UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027648
REPORT IS A COMBINATION OF REPORTS P1001686 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D375UB40-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

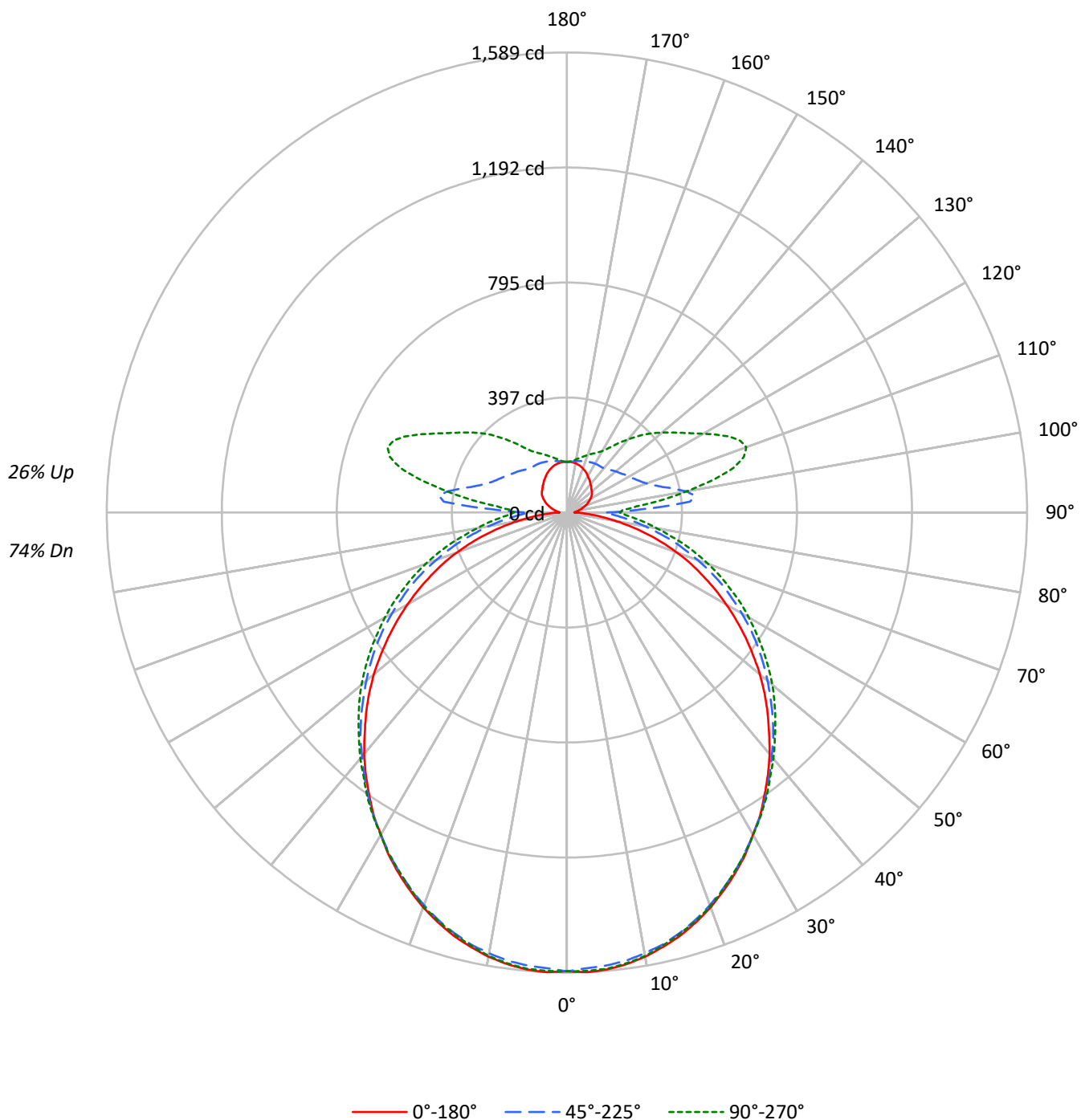
Lumens per Lamp: N/A
Luminaire Lumens: 6229.7 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	10153	10153	10153
5°	10170	9940	9965
10°	10093	9737	9710
15°	9970	9502	9397
20°	9805	9217	9085
25°	9608	8914	8709
30°	9370	8583	8367
35°	9148	8279	8051
40°	8922	7957	7733
45°	8666	7679	7447
50°	8421	7377	7189
55°	8127	7089	6890
60°	7804	6761	6582
65°	7466	6414	6236
70°	7080	5952	5876
75°	6473	5494	5437
80°	5675	4937	4951
85°	4883	4493	4696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8666 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	2.4
10°-20°	425.7	6.8
20°-30°	633.0	10.2
30°-40°	749.7	12.0
40°-50°	775.0	12.4
50°-60°	714.0	11.5
60°-70°	577.2	9.3
70°-80°	386.2	6.2
80°-90°	200.3	3.2
90°-100°	244.5	3.9
100°-110°	357.2	5.7
110°-120°	311.7	5.0
120°-130°	238.8	3.8
130°-140°	180.3	2.9
140°-150°	128.5	2.1
150°-160°	88.5	1.4
160°-170°	52.2	0.8
170°-180°	17.0	0.3
0°-30°	1208.7	19.4
0°-40°	1958.3	31.4
0°-60°	3447.3	55.3
0°-90°	4611.0	74.0
90°-120°	913.5	14.7
90°-150°	1461.0	23.5
90°-180°	1619.0	26.0
0°-180°	6229.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1585	1582	1571	1583	1582	150
15°	1513	1515	1504	1513	1507	426
25°	1375	1380	1370	1376	1369	633
35°	1190	1201	1196	1201	1201	745
45°	980	997	1005	1016	1018	756
55°	754	778	803	820	826	673
65°	519	555	592	615	621	515
75°	286	326	376	407	415	303
85°	85	137	191	225	238	89
90°	25	78	133	170	182	18
95°	32	95	427	290	242	28
105°	54	95	342	621	596	57
115°	81	106	266	532	620	80
125°	105	121	233	414	480	93
135°	119	141	208	328	382	92
145°	137	155	197	253	283	85
155°	154	166	192	217	226	71
165°	168	173	184	195	198	47
175°	175	175	176	179	178	17
180°	175	175	175	175	175	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.7	1584.7	1584.7	1584.7	1584.7
2.5°	1589.3	1586.2	1575.3	1586.2	1584.7
5°	1584.7	1581.6	1570.7	1583.1	1581.6
7.5°	1573.8	1572.2	1561.4	1572.2	1570.7
10°	1558.2	1558.2	1545.8	1556.7	1555.1
12.5°	1536.5	1538.1	1528.7	1536.5	1531.8
15°	1513.2	1514.7	1503.9	1513.2	1507.0
17.5°	1483.7	1486.8	1475.9	1483.7	1479.0
20°	1451.1	1454.2	1443.3	1447.9	1447.9
22.5°	1413.8	1420.0	1407.6	1413.8	1409.1
25°	1374.9	1379.6	1370.3	1376.5	1368.7
27.5°	1333.0	1339.2	1328.3	1333.0	1329.9
30°	1284.8	1294.1	1284.8	1287.9	1286.4
32.5°	1241.3	1249.1	1242.9	1246.0	1244.4
35°	1190.0	1200.9	1196.3	1200.9	1200.9
37.5°	1140.3	1149.7	1148.1	1154.3	1152.8
40°	1089.1	1101.5	1099.9	1106.2	1109.3
42.5°	1033.1	1050.2	1054.9	1062.7	1062.7
45°	980.3	997.4	1005.2	1016.0	1017.6
47.5°	925.9	941.5	953.9	969.4	972.5
50°	870.0	887.1	904.2	921.3	925.9
52.5°	811.0	832.7	854.5	873.1	876.2
55°	753.5	778.3	803.2	820.3	826.5
57.5°	694.5	724.0	751.9	770.6	775.2
60°	635.4	666.5	697.6	720.9	725.5
62.5°	577.9	609.0	643.2	669.6	675.8
65°	518.9	554.6	591.9	615.2	621.4
67.5°	464.5	498.7	536.0	564.0	571.7
70°	403.9	439.7	480.1	509.6	518.9
72.5°	344.9	382.2	427.2	459.9	466.1
75°	285.9	326.3	376.0	407.0	414.8
77.5°	228.4	275.0	321.6	355.8	362.0
80°	175.6	222.2	275.0	309.2	315.4
82.5°	127.4	177.1	231.5	264.1	276.5
85°	85.4	136.7	191.1	225.3	237.7
87.5°	54.4	104.1	156.9	192.6	203.5
90°	25.3	77.8	133.1	170.5	182.1
92.5°	27.1	95.8	262.3	193.0	192.4
95°	31.9	95.1	426.7	289.8	241.6
97.5°	36.6	93.2	445.6	396.5	332.8
100°	41.9	92.5	418.7	494.9	417.2
102.5°	47.7	94.1	378.9	576.9	514.1
105°	54.0	94.6	341.8	621.2	595.9
107.5°	59.8	97.3	313.6	629.8	641.2
110°	66.4	100.2	292.9	608.0	659.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	74.5	103.2	278.3	571.1	648.4
115°	80.7	106.3	266.4	532.2	619.8
117.5°	86.3	109.6	257.0	494.7	582.1
120°	93.4	114.0	248.7	463.6	543.9
122.5°	99.2	116.9	240.6	435.8	509.3
125°	105.2	120.7	233.0	413.5	479.6
127.5°	108.7	125.8	226.1	391.9	453.2
130°	113.3	132.2	220.8	371.7	429.6
132.5°	115.2	137.8	214.5	350.5	405.9
135°	119.1	141.1	208.3	328.4	382.0
137.5°	124.0	145.5	204.0	307.2	355.8
140°	126.8	149.2	199.7	287.2	330.1
142.5°	131.7	151.1	197.0	269.1	305.9
145°	136.7	154.7	196.6	252.6	283.4
147.5°	140.4	157.9	195.9	239.1	261.1
150°	145.0	160.7	194.8	228.8	244.9
152.5°	149.9	163.6	193.4	222.6	234.1
155°	154.2	165.9	191.6	216.6	225.9
157.5°	158.1	168.1	189.9	210.9	218.5
160°	161.9	169.9	188.1	205.2	211.1
162.5°	165.1	171.6	186.0	200.1	204.4
165°	168.3	172.9	183.9	195.0	198.0
167.5°	170.4	173.6	181.7	190.2	192.0
170°	172.6	174.5	180.0	185.6	186.7
172.5°	174.0	174.8	177.9	181.9	181.7
175°	175.0	175.0	176.4	178.6	177.9
177.5°	175.7	175.0	175.4	176.4	175.4
180°	175.4	175.4	175.4	175.4	175.4

(END OF REPORT)