

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: P1027801

Luminaire Tested: S125DIP-B375D1270UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027801
REPORT IS A COMBINATION OF REPORTS P1001887 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1270UB27-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

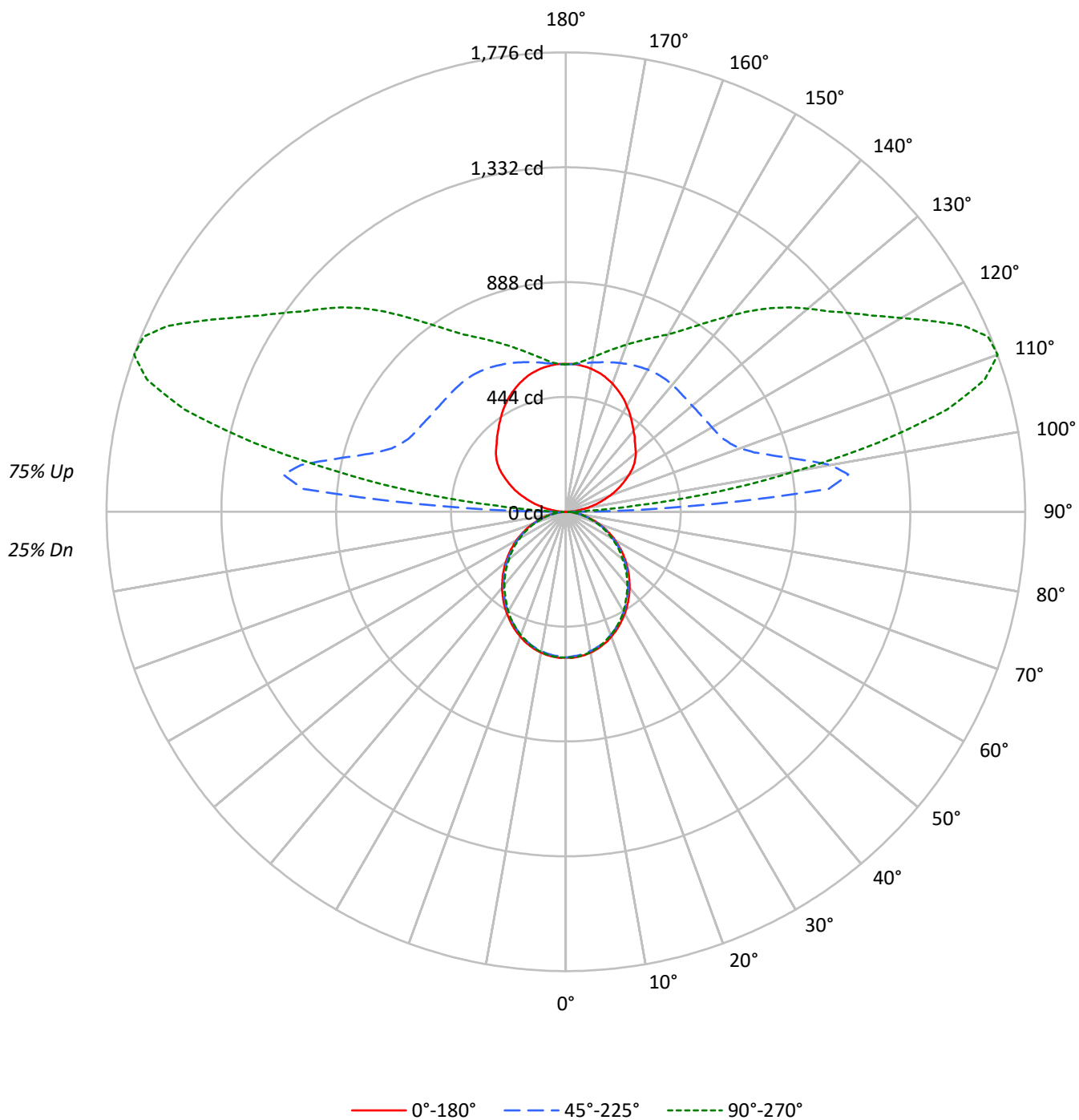
Lumens per Lamp: N/A
Luminaire Lumens: 5766.8 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34
1	92	88	84	81	82	79	75	73	61	59	57	45	43	42	30	29	28
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24
3	77	67	60	55	68	60	54	50	47	43	39	35	32	30	23	21	20
4	70	60	52	46	62	53	47	42	42	37	33	31	28	25	21	19	17
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	17	15
6	59	47	39	34	52	42	36	31	33	28	25	25	21	19	17	15	13
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12
8	50	38	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10
9	47	35	28	23	42	31	25	21	25	20	17	19	15	13	13	11	9
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3611	3611	3611
5°	3611	3528	3534
10°	3581	3446	3436
15°	3534	3350	3320
20°	3471	3238	3187
25°	3402	3115	3045
30°	3321	2988	2894
35°	3232	2855	2726
40°	3142	2713	2577
45°	3043	2575	2418
50°	2935	2419	2233
55°	2828	2247	2063
60°	2700	2065	1865
65°	2547	1855	1660
70°	2391	1614	1424
75°	2131	1330	1151
80°	1816	993	848
85°	1401	588	466

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3043 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	0.9
10°-20°	150.2	2.6
20°-30°	221.8	3.8
30°-40°	258.8	4.5
40°-50°	259.9	4.5
50°-60°	228.1	4.0
60°-70°	169.9	2.9
70°-80°	97.1	1.7
80°-90°	30.3	0.5
90°-100°	430.0	7.5
100°-110°	893.1	15.5
110°-120°	834.2	14.5
120°-130°	675.0	11.7
130°-140°	542.4	9.4
140°-150°	409.4	7.1
150°-160°	288.2	5.0
160°-170°	169.9	2.9
170°-180°	55.2	1.0
0°-30°	425.2	7.4
0°-40°	684.0	11.9
0°-60°	1172.0	20.3
0°-90°	1469.3	25.5
90°-120°	2157.3	37.4
90°-150°	3784.1	65.6
90°-180°	4298.0	74.5
0°-180°	5766.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	563	562	557	561	561	53
15°	536	535	530	532	532	151
25°	487	485	479	480	478	224
35°	420	419	412	410	407	263
45°	344	342	337	332	330	265
55°	262	261	255	251	248	234
65°	177	176	171	167	165	176
75°	94	93	91	90	88	100
85°	24	25	25	24	24	27
90°	1	10	18	24	26	4
95°	38	112	1020	463	270	40
105°	130	182	835	1643	1525	137
115°	232	280	670	1444	1699	229
125°	322	378	642	1149	1339	286
135°	378	454	638	963	1112	293
145°	440	504	640	797	877	276
155°	502	540	624	705	736	231
165°	548	563	599	635	645	154
175°	570	570	574	581	579	54
180°	571	571	571	571	571	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	563.6	563.6	563.6	563.6	563.6
2.5°	565.4	564.1	559.6	564.1	563.6
5°	562.7	561.9	557.4	561.4	561.0
7.5°	558.7	557.8	552.9	556.9	556.5
10°	552.9	552.0	547.1	550.7	550.3
12.5°	545.8	544.0	539.6	542.2	542.2
15°	536.4	535.1	530.2	532.4	532.4
17.5°	526.6	524.4	519.5	522.2	519.9
20°	513.7	512.8	507.0	510.1	507.9
22.5°	500.8	499.0	493.6	495.4	494.1
25°	486.9	484.7	478.9	479.8	478.5
27.5°	470.9	469.5	463.7	464.2	462.9
30°	455.3	453.9	447.3	446.4	445.0
32.5°	438.3	436.1	430.3	428.5	425.8
35°	420.5	418.7	412.5	410.2	406.7
37.5°	402.2	400.0	394.2	391.1	388.8
40°	383.5	381.3	375.0	371.0	369.7
42.5°	363.4	361.6	355.4	351.8	349.6
45°	344.2	342.5	337.1	331.8	330.4
47.5°	323.3	323.7	317.0	311.7	308.6
50°	303.2	301.9	296.5	290.7	287.6
52.5°	282.7	281.8	276.0	271.1	267.5
55°	262.2	260.9	254.6	250.6	247.5
57.5°	240.3	239.9	234.6	229.2	227.9
60°	219.8	218.1	213.1	208.7	205.6
62.5°	198.4	197.1	193.1	188.2	185.9
65°	177.0	176.1	171.2	167.2	165.4
67.5°	156.1	154.3	150.7	147.2	146.3
70°	136.4	134.2	130.2	127.5	125.7
72.5°	115.0	113.7	111.5	108.4	106.6
75°	94.1	93.2	91.0	89.6	87.8
77.5°	74.5	74.0	72.7	71.8	70.5
80°	56.2	56.2	55.3	54.8	54.0
82.5°	40.1	39.2	39.2	38.3	38.3
85°	24.5	25.0	25.0	24.5	23.6
87.5°	12.0	12.0	11.6	11.6	10.7
90°	1.2	10.4	18.4	24.2	26.5
92.5°	17.3	94.4	459.3	122.6	85.2
95°	38.0	112.2	1020.0	462.8	270.5
97.5°	58.7	121.4	1101.7	835.8	592.9
100°	80.6	139.3	1039.5	1181.2	897.9
102.5°	104.8	159.4	930.2	1473.5	1238.7
105°	130.1	181.9	834.6	1643.4	1525.3
107.5°	154.3	205.5	763.2	1691.1	1698.0
110°	180.7	230.2	716.0	1645.6	1776.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	207.2	255.0	688.4	1550.6	1767.1
115°	232.5	280.3	670.0	1444.2	1699.2
117.5°	255.6	306.2	659.6	1347.5	1596.7
120°	278.6	331.0	652.7	1266.4	1497.7
122.5°	302.8	355.2	647.0	1201.3	1410.2
125°	322.3	377.6	642.4	1148.9	1338.8
127.5°	338.5	399.4	640.1	1104.0	1273.2
130°	353.4	420.2	637.8	1058.5	1221.4
132.5°	364.9	438.6	637.8	1009.6	1169.6
135°	377.6	454.2	637.8	963.0	1112.1
137.5°	393.7	468.6	638.9	914.0	1052.2
140°	407.5	480.6	640.1	869.2	988.9
142.5°	423.6	492.1	641.2	830.6	930.2
145°	439.8	503.6	640.1	797.2	877.2
147.5°	457.0	514.0	637.8	768.4	830.0
150°	472.0	523.2	634.3	744.8	792.0
152.5°	488.1	532.4	629.7	724.7	762.1
155°	501.9	540.0	623.9	705.1	735.6
157.5°	514.6	547.4	618.2	686.7	711.4
160°	527.2	553.2	612.4	668.2	687.3
162.5°	537.6	558.9	605.5	651.6	665.4
165°	548.0	563.0	598.6	634.9	644.7
167.5°	554.9	565.2	591.7	619.3	625.1
170°	561.8	568.1	586.0	604.4	607.8
172.5°	566.4	569.2	579.1	592.3	591.7
175°	569.8	569.8	574.4	581.4	579.1
177.5°	572.1	569.8	571.0	574.4	571.0
180°	571.0	571.0	571.0	571.0	571.0

(END OF REPORT)