

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P995703

Luminaire Tested: DTR3-DRP-4F0-035D-935-FLL-D

Issue Date: 1/22/2025

Test Information

Test Method: LM-79-2019
Report Number: P995703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2501-325-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/22/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: DTR3-DRP-4F0-035D-935-FLL-D
Description: Define Torrent LED Luminaire
Light Source: -
Ballast/Driver: -

Summary

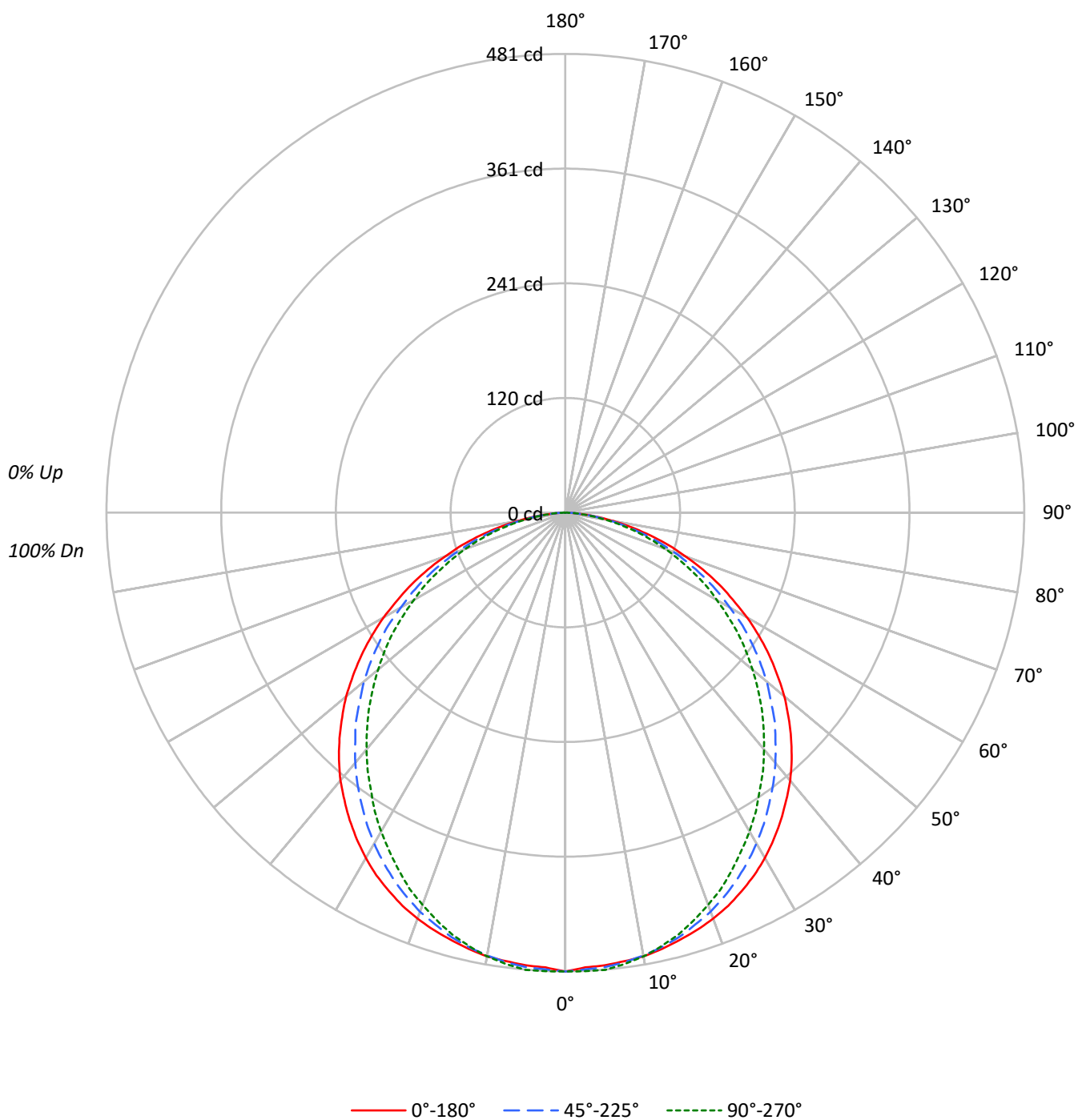
Lumens per Lamp: N/A
Luminaire Lumens: 1329.3 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.2 / 1.35
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 19.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.9842
Total Harmonic Distortion (THDi): 8.81
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P995703

CATALOG NUMBER: DTR3-DRP-4F0-035D-935-FLL-D

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62
5	76	63	54	48	74	62	54	47	60	53	47		58	52	46		56
6	70	57	48	42	68	56	48	41	54	47	41		53	46	41		51
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		47
8	61	47	39	33	59	46	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	29	42	34	29		40	34	29		39
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5180	5180	5180
5°	5148	5168	5199
10°	5164	5153	5164
15°	5168	5135	5103
20°	5189	5101	5013
25°	5197	5048	4909
30°	5198	4980	4799
35°	5176	4895	4666
40°	5153	4813	4553
45°	5095	4727	4431
50°	5020	4615	4290
55°	4898	4480	4151
60°	4740	4282	3948
65°	4523	4103	3754
70°	4214	3818	3512
75°	3834	3431	3186
80°	3186	2889	2641
85°	2149	2149	1914

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5095 cd/sqm

TEST NUMBER: P995703

CATALOG NUMBER: DTR3-DRP-4F0-035D-935-FLL-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	3.4
10°-20°	130.2	9.8
20°-30°	196.1	14.8
30°-40°	234.0	17.6
40°-50°	240.2	18.1
50°-60°	214.2	16.1
60°-70°	159.8	12.0
70°-80°	88.3	6.6
80°-90°	20.9	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	371.9	28.0
0°-40°	605.9	45.6
0°-60°	1060.3	79.8
0°-90°	1329.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1329.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	481	481	481	481	481	
5°	476	482	478	478	481	45
15°	464	468	461	457	458	131
25°	438	438	425	414	413	202
35°	394	389	372	360	355	246
45°	335	328	310	296	291	258
55°	261	254	239	226	221	233
65°	178	172	161	151	147	175
75°	92	88	82	79	77	97
85°	17	17	17	16	16	22
90°	0	0	0	0	0	

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CATALOG NUMBER: DTR3-DRP-4F0-035D-935-FLL-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	481.2	481.2	481.2	481.2	481.2
2.5°	477.3	483.1	479.3	480.2	481.2
5°	476.4	482.2	478.3	478.3	481.2
7.5°	474.4	480.2	475.4	474.4	477.3
10°	472.5	477.3	471.5	469.6	472.5
12.5°	468.6	472.5	466.7	463.8	465.6
15°	463.8	467.6	460.8	457.0	457.9
17.5°	458.9	461.8	453.0	448.2	448.2
20°	453.0	454.1	445.3	438.5	437.6
22.5°	446.2	447.3	435.6	426.8	426.8
25°	437.6	437.6	425.0	414.2	413.3
27.5°	428.8	426.8	413.3	402.7	399.7
30°	418.2	415.3	400.7	389.0	386.1
32.5°	406.5	402.7	387.1	374.5	371.6
35°	393.9	389.0	372.5	359.9	355.1
37.5°	380.3	374.5	358.0	344.4	340.5
40°	366.7	359.9	342.5	328.8	324.0
42.5°	351.2	344.4	326.0	312.4	307.6
45°	334.7	327.9	310.5	295.9	291.1
47.5°	317.3	310.5	292.0	278.5	273.6
50°	299.8	292.0	275.6	261.0	256.2
52.5°	280.4	273.6	257.1	243.6	238.7
55°	261.0	254.2	238.7	226.0	221.2
57.5°	240.6	234.8	220.2	206.6	201.8
60°	220.2	213.4	198.9	188.2	183.4
62.5°	197.9	192.1	180.5	169.7	166.8
65°	177.6	171.7	161.1	151.4	147.4
67.5°	156.2	151.4	140.7	132.9	129.1
70°	133.9	130.0	121.3	114.5	111.6
72.5°	113.5	108.6	101.9	96.0	94.1
75°	92.2	88.3	82.5	78.6	76.6
77.5°	70.8	67.9	64.0	61.1	59.2
80°	51.4	48.5	46.6	44.6	42.6
82.5°	33.0	31.1	31.1	29.1	28.1
85°	17.4	17.4	17.4	16.5	15.5
87.5°	5.8	6.8	6.8	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.82	19.45	18.18	19.76	20.08	16.87	18.50	17.24	18.81	19.13
	3H	19.60	21.07	19.97	21.40	21.76	18.59	20.06	18.96	20.39	20.75
	4H	20.24	21.63	20.64	21.97	22.35	19.21	20.59	19.61	20.94	21.32
	6H	20.66	21.95	21.08	22.31	22.70	19.62	20.91	20.03	21.27	21.66
	8H	20.78	22.00	21.20	22.39	22.79	19.73	20.96	20.16	21.35	21.75
	12H	20.83	22.01	21.26	22.39	22.82	19.79	20.97	20.22	21.35	21.78
4H	2H	18.34	19.73	18.74	20.08	20.45	17.59	18.98	17.99	19.32	19.70
	3H	20.34	21.50	20.75	21.90	22.30	19.51	20.67	19.92	21.07	21.47
	4H	21.11	22.16	21.54	22.57	23.01	20.24	21.29	20.67	21.70	22.14
	6H	21.65	22.57	22.10	23.01	23.46	20.77	21.68	21.22	22.12	22.58
	8H	21.80	22.66	22.26	23.10	23.56	20.91	21.77	21.37	22.21	22.68
	12H	21.89	22.66	22.37	23.13	23.60	21.00	21.77	21.48	22.25	22.72
8H	4H	21.34	22.20	21.80	22.64	23.11	20.57	21.43	21.03	21.87	22.34
	6H	21.98	22.69	22.48	23.18	23.66	21.20	21.91	21.69	22.40	22.88
	8H	22.19	22.82	22.70	23.33	23.82	21.40	22.04	21.91	22.55	23.03
	12H	22.33	22.89	22.83	23.38	23.94	21.55	22.11	22.05	22.60	23.16
12H	4H	21.36	22.13	21.84	22.60	23.07	20.61	21.38	21.09	21.85	22.32
	6H	22.01	22.65	22.52	23.16	23.64	21.25	21.89	21.76	22.40	22.88
	8H	22.26	22.82	22.77	23.31	23.88	21.51	22.07	22.01	22.56	23.12